

SDB Corporation

Products Catalog

Chemical/Machinery
Products Brochure

www.sdb.co.kr

The logo consists of the letters 'SDB' in white, set against a blue and green geometric background.

SDB Corporation

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CORPORATE INFORMATION

Company name	SDB Corporation
Establishment	25th October, 1983
CEOs	Ho Seoun Kim, Han Sun Kim
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Home page	www.sdb.co.kr
Type	Manufacturing, Construction
Item	Waterproof & Floor coatings, etc.



VISION

Leading company in eco-friendly chemical business and the top-notch company in production equipment field



MISSION

To foster better life environment for all human beings technology



CORE VALUE

- Customer satisfaction through honesty
- Social contribution through love and serve
- Profit creation through passion and challenge
- Top-notch company through change and innovation

PRODUCT LIST

Polyurethane Coatings



- Exposed Urethane waterproof coating
- Non-exposed Urethane waterproof coating
- One-component exposed Urethane waterproof coating
- Water-curable Urethane waterproof coating



Epoxy Coatings

- Urethane Floor
- Urethane sealant
- Elastic pavement material
- Elastic concrete floor coating (J-CRETE)
- Elastic concrete floor coating (E-CRETE)

- Solvent-free Epoxy floor coatings
- Solvent-free Epoxy embo floor coatings
- Solvent-based Epoxy anti-dust floor coatings
- Acid-resistant Epoxy floor coatings
- Epoxy resin mortar floor coatings

Polyurea Coatings



- Urea waterproof coating / floor coating

Interior Materials



- Functional diatomite board (ECO Diaboard)
- Inorganic wooden floor adhesive

Other Products

- MMA anti-slip coating (JM Coat NS / JM Coat ST)

Exposed Urethane Waterproof coating

Waterproof JEPO TEX - 2U

Jeпо Tex-2U is a two component urethane coating composing of main component made of Polyol and hardener made of Polyisocyanate, with excellent elasticity and elongation percentage. It is intended for all-weather waterproof/floor coating with excellent durability, and widely used for the intermediate coat for the waterproof coating and elastic floor coating on the rooftop of common buildings.



USES

- Intermediate coat requiring the exposed waterproof coating and the elasticity on the rooftop of common buildings, apartment, etc. (Ex: Volleyball court, Basketball court, Table tennis court, Handball court, Health club, Office, Playroom, Hospital, Classroom, Library, etc)
- Waterproofing concrete structure like generator room, machine room, factory, etc with intense shaking

THEORETICAL COVERAGE

- 1.35 ~ 1.45 kg/m² (Based on 1mm)

APPLICATION METHOD (Urethane mixing)

- Mix the main component and hardener in accordance with the specified mixing ratio.
- It is recommended to use the bottom-round plastic container which has the capacity almost 1.2 times bigger than the whole amount which you want to mix. It is recommended to put hardener before mixing the main component.
- Main component and hardener for waterproof coating are packed in fixed amount suiting the mixing ratio, but small amount applied depending upon working site, weather or other conditions shall be measured exactly using a scale before mixing.

APPLICATION METHOD (Application)

- Apply the product starting from the vertical portion to the horizontal portion using trowel, roller, brush, etc.
- Because the waterproof coating runs from the higher gradient portion to the lower gradient portion and the coating film can thicken, adjust the applied amount when operating.
- Usually the waterproof coatings can use the designated thinner within the limit of 2% considering bad mixture, prevention of bubbles and workability. But, excessive dilution may cause bad hardening, poor strength, flooding, crack, bubbles, etc
- In order to eliminate the bubbles on the surface of intermediate coat, the omitted portion in the bottom coat shall be not present. It is effective if the intermediate coat is applied dividing into 1st step Scrapping and 2nd step Main application. The bubbles on the coating film after intermediate coat application can be removed effectively by spraying slightly the designated thinner.

FEATURES

- Room temperature hardened type with good workability.
- Seamless waterproof layer facilitates to apply on the complicated portion and easy to repair despite destruction of waterproof layer
- Coating film in rubber phase prevents the crack of the floor surface.
- Excellent water resistance, durability and chemical resistance.
- Coating thickness is adjustable freely.

PACKAGE

- Main component : Hardener = 21kg : 7kg / 15kg : 5kg

APPLICATION METHOD (Stirring)

- Fully stir the mixed main component and hardener using electric powered stirrer for 3~5 minutes. It is recommended to select the stirrer with big capacity and less RPM.
- Stir the mixture up down left right side and front, back and every corner. And if the stirring is finished, scratch down the material on the wall of container and stir them again.

TYPICAL PROPERTIES

ITEM	PRODUCT	JEPO TEX - 2U		Note
		Main component	Hardener	
Appearance		Colored viscous liquid	Lemon yellow liquid	JD-F-201
Mixing ratio		3	1	WT%
Mixing viscosity(Cps)		3,500±1,000		JD-F-104
Mixed specific gravity(20°C)		1.40±0.05		JD-F-110
Pot life (25°C,min)		30 ~ 90		JD-F-405
Dry time	Set to touch	8±2		JD-F-404
	Dry Hard	24±4		JD-F-404
Hardness		60±10		JD-F-301
Tensile strength(N/mm ²)		≥2.5		KS F 3211
Tearing strength(N/mm ²)		≥14.7		
Elongation percentage(%)		≥450		

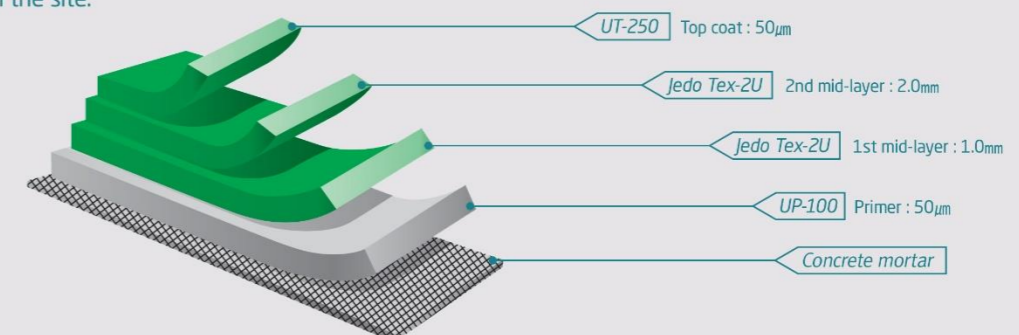
SAFETY PRECAUTIONS

- This is a responsive two component paint. So, mix the product in accordance with the specified ratio and stir uniformly.
- When you perform coating and hardening, 5°C is appropriate as the ambient temperature and the surface temperature shall be higher than dewing point to avoid the moisture condensing.
- Pot life expired product may be deteriorated in adhesiveness and may get worse in various physical properties. Mix only as much as you need.
- Because the pores in the concrete may produce bubbles, check the presence of bubbles on the surface to be coated in advance and scrape some of portions subject to intermediate coat and then apply the intermediate coat remained after 24 hours at 20°C.
- Only use the designated urethane thinner. Don't use the thinner from other company or containing alcohol (epoxy thinner, lacquer thinner, etc) because they cause bad hardening.
 - ※ Thinner for general urethane coating and other thinners are strictly prohibited
- Imperfect stirring may cause partial hardening by unmixed coating on the side of mixing container. Scratch the side and stir it again.
- Perform the application work under well-ventilated condition. If you work in the enclosed place, you must wear the respiratory protection.
- Store the hardener for Jeпо Tex-2U in air-tight container after using because it reacts to the humidity in the air.
- Mixed coating shall be used up within pot life.
- The application thickness shall be based on 2mm or above preferably.
- Keep away from fire or direct sunlight. Keep the product in a dry and cool place at the room temperature of 5~35°C. The remains after using shall be stored in air-tight container.

APPLICATION DIAGRAM

- Application diagram: Common roof waterproof

The application condition is in accordance with general application method and subject to change depending upon the circumstances in the site.



Non-exposed Urethane Waterproof coating

Waterproof JEPO TEX - 1T/50NT

Jeпо Tex-1T/50NT is two component urethane coating composing of main component made of Polyol and hardener made of Polyisocyanate, with excellent elasticity and elongation percentage. It is intended for all-weather waterproof/floor coating with excellent durability, and widely used for the intermediate coat for the waterproof coating and elastic floor coating on the rooftop of common buildings.



USES

- Non-exposed waterproof coating for common buildings, apartment, etc.
- Terminal disposal plant of sewage, septic tank
- Waterproof coating for bathroom, toilet, etc

FEATURES

- Room temperature hardened type with good workability.
- Seamless waterproof layer facilitates to apply on the complicated portion and easy to repair despite destruction of waterproof layer
- Coating film in rubber phase prevents the crack of the floor surface.
- Excellent water resistance, durability and chemical resistance.
- Coating thickness is adjustable freely.
- Even if waterproof layer is damaged, it is easy to repair.

THEORETICAL COVERAGE

- 1T : 1.25 ~ 1.45 kg/m² (Based on 1mm)
- 50NT : 1.35 ~ 1.55 kg/m² (Based on 1mm)

APPLICATION METHOD (Urethane mixing)

- Mix the main component and hardener in accordance with the specified mixing ratio.
- It is recommended to use the bottom-round plastic container which has the capacity almost 1.2 times bigger than the whole amount which you want to mix. It is recommended to put hardener before mixing the main component.
- Main component and hardener for waterproof coating are packed in fixed amount suiting the mixing ratio, but small amount applied depending upon working site, weather or other conditions shall be measured exactly using a scale before mixing.

APPLICATION METHOD (Application)

- Apply the product starting from the vertical portion to the horizontal portion using trowel, roller, brush, etc.
- Because the waterproof coating runs from the higher gradient portion to the lower gradient portion and the coating film can thicken, adjust the applied amount when operating.
- Usually the waterproof coatings can use the designated thinner within the limit of 2% considering bad mixture, prevention of bubbles and workability. But, excessive dilution may cause bad hardening, poor strength, flooding, separate color, crack, bubbles, etc
- In order to eliminate the bubbles on the surface of intermediate coat, the omitted portion in the bottom coat shall be not present. It is effective if the intermediate coat is applied dividing into 1st step Scrapping and 2nd step Main application. The bubbles on the coating film after intermediate coat application can be removed effectively by spraying slightly the designated thinner.

PACKAGE

- 1T : Main component : Hardener = 21kg : 7kg
- 50NT : Main component : Hardener = 22.4kg : 5.6kg

APPLICATION METHOD (Stirring)

- After mixing the main component and hardener in accordance with the specified mixing ratio, fully stir the mixed main component and hardener using electric powered stirrer for 3~5 minutes. It is recommended to select the stirrer with big capacity and less RPM.
- Stir the mixture up down left right side and front, back and every corner. And if the stirring is finished, scratch down the material on the wall of container and stir them again.

TYPICAL PROPERTIES

ITEM	PRODUCT	Jeпо Tex - 1T (Non-exposed waterproof:KS)		Jeпо Tex - 50NT (Non-exposed waterproof:KS)		Note
		Main component	Hardener	Main component	Hardener	
Appearance		Black liquid	Lemon yellow liquid	Black liquid	Lemon yellow liquid	JD-F-201
Mixing ratio		3	1	4	1	WT%
Mixing viscosity(Cps)		10,000±2,000		2,000±500		JD-F-104
Mixed specific gravity(20℃)		1.35±0.10		1.45±0.10		JD-F-110
Pot life(25℃,min)		30±10		≥40		JD-F-405
Dry time	Set to touch	5±1		<5		JD-F-404
	Hard dry	24±4		<24		JD-F-404
Hardness(Shore D)		50±10		50±10		KSM-3043
Tensile strength(N/mm ²)		≥2.0		≥2.0		
Tearing strength(N/mm ²)		≥12.8		≥12.8		KSF-3211
Elongation percentage(%)		≥550		≥550		

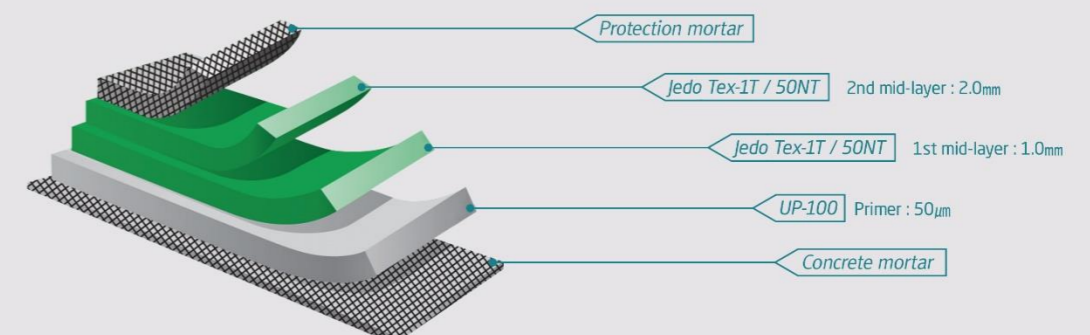
SAFETY PRECAUTIONS

- This is a responsive two component paint. So, mix the product in accordance with the specified ratio and stir uniformly.
- When you perform coating and hardening, 5℃ is appropriate as the ambient temperature and the surface temperature shall be higher than dewing point to avoid the moisture condensing.
- Pot life expired product may be deteriorated in adhesiveness and may get worse in various physical properties. Mix only as much as you need.
- Because the pores in the concrete may produce bubbles, check the presence of bubbles on the surface to be coated in advance and scrape some of portions subject to intermediate coat and then apply the intermediate coat remained after 24 hours at 20℃.
- Only use the designated urethane thinner. Don't use the thinner from other company or containing alcohol (epoxy thinner, lacquer thinner, etc) because they cause bad hardening.
(Thinner for general urethane coating and other thinners are strictly prohibited)
- Imperfect stirring may cause partial hardening by unmixed coating on the side of mixing container. Scratch the side and stir it again.
- Please do not use as a non-exposed waterproof in the indoor or toilet.
- Perform the application work under well-ventilated condition. If you work in the enclosed place, you must wear the respiratory protection.
- Because the hardener for Jeпо Tex-1T/50NT is hardened in reaction to the moisture in the air, store it in airtight container after using.
- Mixed coating shall be used up within pot life.
- The application thickness shall be based on 2mm or above preferably.
- Keep away from fire or direct sunlight. Keep the product in a dry and cool place at the room temperature of 5~35℃. The remains after using shall be stored in air-tight container.

APPLICATION DIAGRAM

- Application diagram: Common non-exposed waterproof

The application condition is in accordance with general application method and subject to change depending upon the circumstances in the site.



One-component exposed Urethane Waterproof coating

Waterproof Zerothane#2

Zerothane#2 is an one component elastic urethane intermediate coat coating with excellent physical properties such as elongation percentage, adhesiveness, elasticity, shock resistance, etc, in particular, you can use the coating without stirring the main component and hardener for the application work and cover up to 1~1.5mm at one application. It is one component rooftop waterproof coating with smoothness and elastic effect of the coating film.



USES

- Rooftop exposed waterproof coating for common buildings, APT, etc
- Concrete structures in generator room, machine room, factory, etc which shake violently

THEORETICAL COVERAGE

- 1.3 ~ 1.4 kg/m² (Based on 1mm)

PACKAGE

- 18kg

APPLICATION METHOD (Stirring)

- One component type which doesn't need to mix the main component with hardener.
- If the filler deposits and responsive urethane resin is supernatant due to the long storage of the product, mix the deposited filler using the electric powered stirrer before application.

APPLICATION METHOD (Application)

- Apply the product starting from the vertical portion to the horizontal portion using trowel, roller, brush, etc.
- Because the waterproof coating runs from the higher gradient portion to the lower gradient portion and the coating film can thicken, adjust the applied amount when operating.
- Usually the waterproof coatings can use the designated thinner within the limit of 2% considering bad mixture, prevention of bubbles and workability. But, excessive dilution may cause bad hardening, poor strength, flooding, crack, bubbles, etc
- In order to eliminate the bubbles on the surface of intermediate coat, the omitted portion in the bottom coat shall be not present. It is effective if the intermediate coat is applied dividing into 1st step Scrapping and 2nd step Main application. The bubbles on the coating film after intermediate coat application can be removed effectively by spraying slightly the designated thinner.

FEATURES

- Room temperature hardened type with good workability.
- Seamless waterproof layer facilitates to apply on the complicated portion and easy to repair despite destruction of waterproof layer
- Coating film in rubber phase prevents the crack of the floor surface.
- Excellent water resistance, durability and chemical resistance.
- Coating thickness is adjustable freely.
- One component type which is easy to apply and reduces the overall construction cost.
- One component type which doesn't need the construction specialist and free of defects caused by mix.

TYPICAL PROPERTIES

Standard color: Green, Gray

ITEM	PRODUCT	Zerothane#2 (One component expose urethane waterproof coating)	Note
Appearance		Green and custom color	JD-F-201
viscosity(Cps)		2,000±500	JD-F-104
Mixing ratio		One component	-
specific gravity(25℃)		1.35±0.05	JD-F-110
Dry time	Set to touch	<5	JD-F-404
	Dry Hard	<24	JD-F-404
Hardness(Shore D)		60±10	KSM-3043
Tensile strength(N/mm ²)		≥2.5	KSF-3211
Tearing strength(N/mm ²)		≥14.7	
Elongation percentage(%)		≥450	

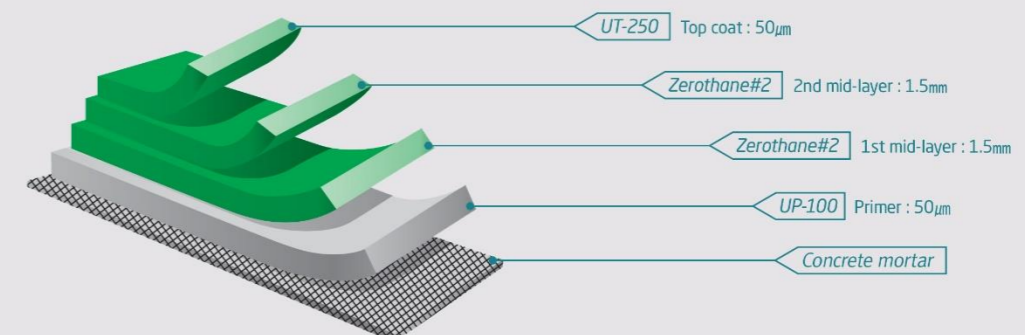
SAFETY PRECAUTIONS

- This is one component urethane waterproof coating. You must apply 2~3 times under 1.5mm for one application.
- This is one component wet hardening type urethane waterproof coating and it reacts to moisture in the air and is hardened, so it is hardened beginning from the exposed surface. You must apply under 1.5mm for one application. Your attention is required because the inner hardening becomes slow or fails, if once-applied coating film is thick due to substrate gradient or substrate sink.
- When you perform coating and hardening, 5℃ is appropriate as the ambient temperature and the surface temperature shall be higher than dewing point to avoid the moisture condensing.
- Don't mix this product with other coatings.
- Because the pores in the concrete may produce bubbles, check the presence of bubbles on the surface to be coated in advance and scrape some of portions subject to intermediate coat and then apply the intermediate coat remained after 24 hours at 20℃.
- Only use the designated urethane thinner. Don't use the thinner from other company or containing alcohol (epoxy thinner, lacquer thinner, etc) because they cause bad hardening.
- Perform the application work with good ventilation and you must wear the respiratory protection when you work in the enclosed place.
- Total application thickness shall be based on 2mm or thicker preferably.
- Keep away from fire and direct sunlight. Keep in a dry and cool place of 5~35℃ and store the remains after using in the airtight container. The product exposed to the air may cause the increase in viscosity and internal hardening in case of storage for long period.

APPLICATION DIAGRAM

- Application diagram: Common roof waterproof

The application condition is in accordance with general application method and subject to change depending upon the circumstances in the site.



Urethane Flooring

Flooring - JEPO TEX 3L / 4L

Jepo Tex-3L/4L is a high performance urethane product formed of the reaction of Polyol group and Polyisocyanate group with excellent elasticity and elongation percentage. It is intended for all- weather waterproof floor coating with excellent durability and widely used for general office, library and floor coating requiring elasticity.



USES

- Floor for general office, hospital and library
- Floor for roller skate link, parking lot, jogging track, etc
- Intermediate, top coat for floor requiring elasticity
- Used for (Ex: volleyball court, basketball court, table tennis court, handball court, etc)
- Floor of concrete structure in generator room, machine room, factory, etc which shake violently

THEORETICAL COVERAGE

- Jepo Tex : 1.20 ~ 1.40 kg/m² (Based on 1mm)
- Jepo Tex : 1.25 ~ 1.45 kg/m² (Based on 1mm)

APPLICATION METHOD (Urethane mixing)

- Mix the main component and hardener in accordance with the specified mixing ratio.
- It is recommended to use the bottom-round plastic container which has the capacity almost 1.2 times bigger than the whole amount which you want to mix. It is recommended to put hardener before mixing the main component.
- Main component and hardener for waterproof coating are packed in fixed amount suiting the mixing ratio(Main component:Hardener=2:1), but small amount applied depending upon working site, weather or other conditions shall be measured exactly using a scale before mixing.

APPLICATION METHOD (Application)

- Apply the product starting from the vertical portion to the horizontal portion using trowel, roller, brush, etc.
- Because the waterproof coating runs from the higher gradient portion to the lower gradient portion and the coating film can thicken, adjust the applied amount when operating.
- Usually the waterproof coatings can use the designated thinner within the limit of 2% considering bad mixture, prevention of bubbles and workability. But, excessive dilution may cause bad hardening, poor strength, flooding, crack, bubbles, etc
- In order to eliminate the bubbles on the surface of intermediate coat, the omitted portion in the bottom coat shall be not present. It is effective if the intermediate coat is applied dividing into 1st step Scrapping and 2nd step Main application. The bubbles on the coating film after intermediate coat application can be removed effectively by spraying slightly the designated thinner.

FEATURES

- Room temperature hardened type with good workability.
- Beautiful appearance due to seamless type.
- Coating film in rubber phase prevents the crack of the floor surface.
- Excellent water resistance, durability and chemical resistance.
- Color is adjustable freely.
- Coating thickness is adjustable freely.
- Excellent walk feeling and easy partial repair.

PACKAGE

- A liquid (Hardner) : B liquid(Main component) = 18.0kg : 9.0kg

APPLICATION METHOD (Stirring)

- After mixing the main component and hardener in accordance with the specified mixing ratio, fully stir the mixed main component and hardener using electric powered stirrer for 3~5 minutes. It is recommended to select the stirrer with big capacity and less RPM.
- Stir the mixture up down left right side and front, back and every corner. And if the stirring is finished, scratch down the material on the wall of container and stir them again.

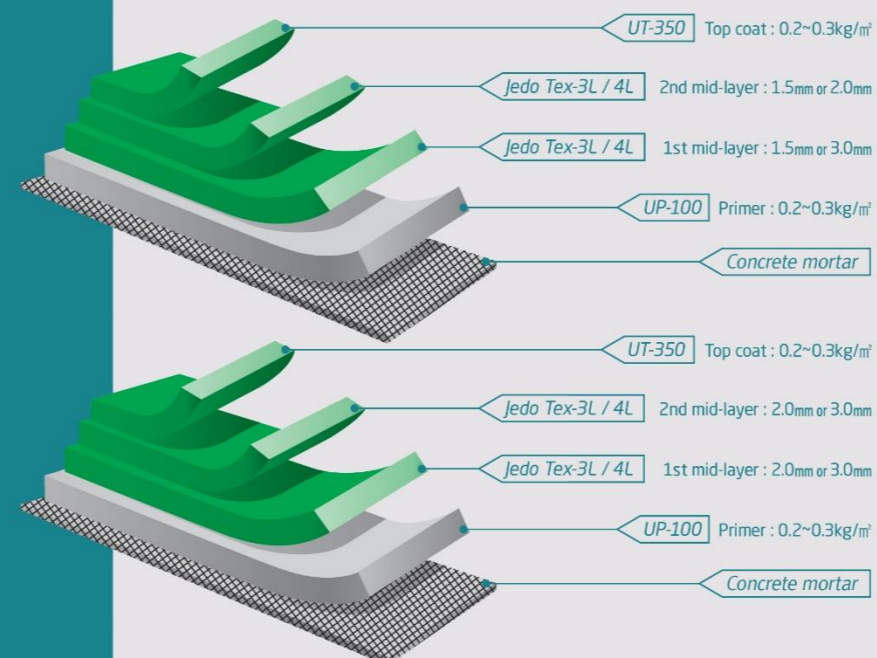
TYPICAL PROPERTIES

ITEM	PRODUCT	Jepo Tex - 3L (Hardened flooring)		Jepo Tex - 4L (High hardened flooring)		Note
		Main component	Hardener	Main component	Hardener	
Appearance		Green or custom color	Colored viscous liquid	Green or custom color	Colored viscous liquid	JD-F-201
Mixing ratio		2	1	2	1	WT%
Mixing viscosity(Cps)		3,500±1,000		3,500±1,000		JD-F-104
Mixed specific gravity(20℃)		1.30±0.10		1.35±0.10		JD-F-110
Pot life(25℃,min)		30±10		30±10		JD-F-405
Dry time (hrs)	Set to touch	<5		<10		JD-F-404
	Hard dry	<24		24±4		JD-F-404
Hardness(Shore D)		≥70		80±10		JD-F-301
Tensile strength(N/mm ²)		≥5.5		≥9		JD-F-306
Tearing strength(N/mm ²)		≥29.4		≥34.3		JD-F-306
Elongation percentage(%)		≥150		≥150		JD-F-310

APPLICATION DIAGRAM

- The application condition is in accordance with general application method and subject to change depending upon the circumstances in the site.

- Jepo Tex -3L(Office floor),
Jepo Tex-4L(Parking lot, Factory floor)



SAFETY PRECAUTIONS

- This is a responsive two component paint. So, mix the product in accordance with the specified ratio and stir uniformly.
- When you perform coating and hardening, 5°C is appropriate as the ambient temperature and the surface temperature shall be higher than dewing point to avoid the moisture condensing.
- Pot life expired product may be deteriorated in adhesiveness and may get worse in various physical properties. Mix only as much as you need.
- Because the pores in the concrete may produce bubbles, check the presence of bubbles on the surface to be coated in advance and scrape some of portions subject to intermediate coat and then apply the intermediate coat remained after 24 hours at 20°C.
- Only use the designated urethane thinner. Don't use the thinner from other company or containing alcohol (epoxy thinner, lacquer thinner, etc) because they cause bad hardening. (Thinner for general urethane coating and other thinners are strictly prohibited)
- Imperfect stirring may cause partial hardening by unmixed coating on the side of mixing container. Scratch the side and stir it again.
- Perform the application work under well-ventilated condition. If you work in the enclosed place, you must wear the respiratory protection.
- Because the hardener for Jepo Tex 3L/4L is hardened in reaction to the moisture in the air, store it in airtight container after using.
- Mixed coating shall be used up within pot life.
- The application thickness shall be based on 2mm or above preferably.
- Keep away from fire or direct sunlight. Keep the product in a dry and cool place at the room temperature of 5~35°C. The remains after using shall be stored in air-tight container.

Elastic pavement material

Inherent high performance of the material and rich & excellent elasticity provide easy maintenance.

TYPE 1

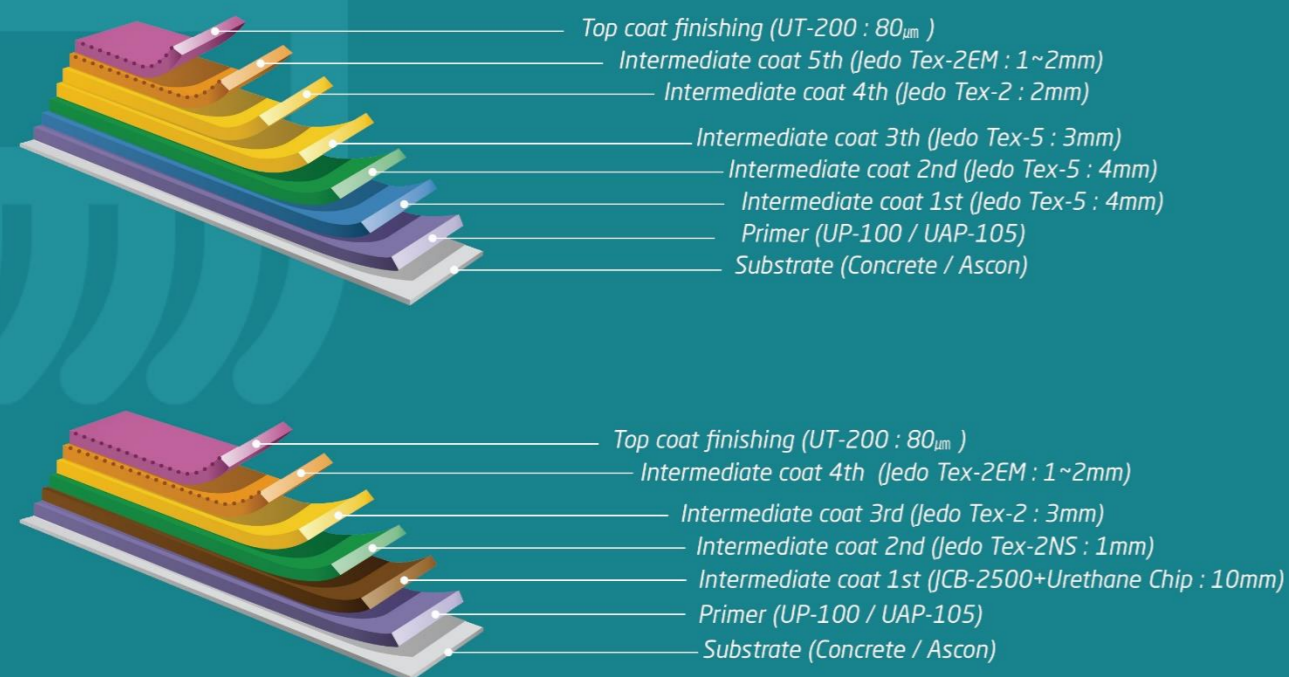
USES

- Multipurpose stadium / Athletic track

FEATURES

- Excellent repulsive elasticity provides great shock absorbing effect, which helps to prevent injury and reduce the physical fatigue.
- Elastic force is adjustable, which can be used for the multipurpose.
- Economic efficiency: less maintain cost and easy to manage and repair

APPLICATION DIAGRAM



TYPE 2

USES

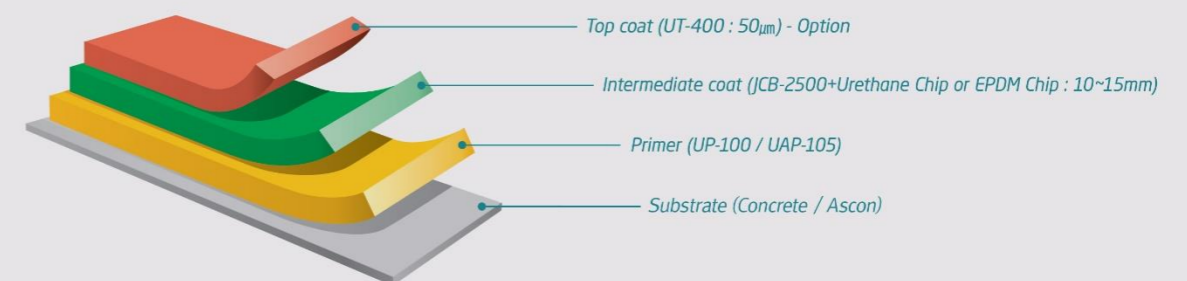
- Walking trail, Sidewalk, Jogging track, Parking walkway, Children's playground, Plaza, Pedestrian overpass, Golf course footpath, Golf course cart road, Footpath in hospital and sanatorium, Footpath

FEATURES

- Minimizes the feeling of fatigue of the feet by maximizing the feeling of walking with the adequate elasticity.
- Excellent durability, semi-permanent, easy to repair partially in case of partial damage.
- Permeable and drain function prevents the water from being collected despite rain, which makes maintain non-slip surface.
- There is no surface discoloration you can create the color and pattern suiting the intended use.
- You can construct in any place by the site-placing method.
- You can use the product for the versatile purposes by the adjustment of elastic force according to the intended use.
- You can make the pleasant children's playground without propagation of germs.
- Eco-friendly without heavy metal materials.

APPLICATION DIAGRAM

- Top coat: if needed
- Intermediate coat and bottom coat
- Base surface
- Top coat finishing
- Intermediate coat 5th, 4th, 3rd, 2nd and 1st



Urethane sealant—two component type

US-200 is a high performance urethane product produced by the reaction of Polyol group and Polyisocyanate group with excellent elasticity and elongation percentage. It is intended for the urethane sealant product with excellent durability and widely used for waterproof coating of rooftop parapet of common buildings and the intermediate coat for the vertical portion of stand of the various stadiums.



USES

- Various joint for construction and civil engineering work
- Expansion joint for various buildings
- Contraction and expansion joint sealing for concrete pavement

FEATURES

- Good compatibility between main component and hardener, and excellent workability.
- High elongation percentage and restoring force provide good strength resistant to the repeated movement by the temperature change.
- In combination with primer (Jointly using UP-100 and US-200), it provides excellent adhesiveness on the various substrate surfaces. Just in case, you must take a test for adhesiveness before using.

THEORETICAL COVERAGE

- 1T : 1.45 ~ 1.65 kg/m² (Based on 1mm)

PACKAGE

- Main component : Hardener = 2.0kg : 10.0kg

APPLICATION METHOD (Urethane mixing)

- Mix the main component and hardener in accordance with the specified mixing ratio.
- It is recommended to use the bottom-round plastic container which has the capacity almost 1.2 times bigger than the whole amount which you want to mix. It is recommended to put hardener before mixing the main component.
- Main component and hardener for waterproof coating are packed in fixed amount suiting the mixing ratio, but small amount applied depending upon working site, weather or other conditions shall be measured exactly using a scale before mixing.

APPLICATION METHOD (Stirring)

- After mixing the main component and hardener in accordance with the specified mixing ratio, fully stir the mixed main component and hardener using electric powered stirrer for 3~5 minutes.
- Stir the mixture up down left right side and front, back and every corner. And if the stirring is finished, scratch down the material on the wall of container and stir them again.

APPLICATION METHOD (Application)

- You must use the dedicated gun for the sealant coking and edging work. For the crack repairing work, do V-cutting on the cracked Portion of the substrate surface before repairing.

TYPICAL PROPERTIES

ITEM	PRODUCT	US-200		Note
		Main component	Hardener	
Appearance		Lemon yellow liquid	Gray and custom color	JD-F-201
Mixing ratio		1	5	WT%
Mixing viscosity(Cps)		Paste phase		JD-F-104
Mixed specific gravity(20°C)		1.55±0.10		JD-F-110
Pot life (hrs)		4±2		JD-F-405
Dry time	Set to touch	8±2		JD-F-404
	Dry Hard	<48		JD-F-404
Hardness		30±10		JD-F-301
Elongation percentage(%)		≥600		JD-F-306

SAFETY PRECAUTIONS

- This is a responsive two component paint. So, mix the product in accordance with the specified ratio (marked on the front of product package) and stir uniformly.
- When you perform coating and hardening, 5°C is appropriate as the ambient temperature and the surface temperature shall be higher than dewing point to avoid the moisture condensing.
- Pot life expired product may be deteriorated in adhesiveness and may get worse in various physical properties. Mix only as much as you need.
- Imperfect stirring may cause partial hardening by unmixed coating on the side of mixing container. Scratch the side and stir it again.
- Because the main component for US-200 reacts to the moisture in the air, store it in the airtight container after using.
- Mixed coatings shall be used up within pot life.
- Keep away from fire and direct sunlight. Keep in a dry and cool place of 5~35°C and store the remains after using in the airtight container.
- Yellowing and pink coloring may occur in this product depending upon the weather and substrate surface due to the nature of resin. For more information, contact our research Lab.
- Tacky may occur after the coating film is hardened due to the nature of the product.
- For mixing the main component and hardener, the mix of thinner, kerosene, alcohol or solvent may cause bad hardening or deteriorated coating film properties. Never mix with them.
- This product may spoil due to the nature of chemicals if stored for a long time. Use the product within the expiry date.

Water-curable Urethane Waterproof coating

Waterproof Aquathane / ECO-friendly

Aquathane intermediate coat can be hardened by water and it is waterproof floor coating with the equivalent elasticity, elongation percentage and durability to the common coatings as an almost odorless eco-friendly coating. Particularly, it hardly emit VOCs mainly causing Sick House Syndrome which has been on the issue lately, so it is suitable for children facilities like school, etc.



USES

- Preschool and school facilities, children facilities like amusement part, etc
- Waterproof for apartment and concrete building rooftop
- Waterproof for villa, multiplex housing rooftop, etc
- Intermediate coat for athletic track and multipurpose court (e.g. basketball court, gymnasium)

FEATURES

- Uses water as hardener. (Can be mixed at the site)
- No emission of volatile organic compound.
- Has the physical properties better than oil based coatings.
- Protects the health of workers.
- No heavy metal and MOCA.
- Clean appearance due to seamless smooth coating by Self-Leveling method.
- Excellent elasticity helps to improve the athletic performance due to less physical fatigue if installed in sports facility.
- Prevents sick house syndrome to assist in preventing child atopy.

THEORETICAL COVERAGE

- 1.1~1.2kg/m² (Based on 1mm)

PACKAGE

- Main component 15kg

APPLICATION METHOD

- Mix the main component and hardener (water) in accordance with the specified mixing ratio. Apply starting from the vertical portion to the horizontal portion within pot life using trowel, roller, brush, etc after defining the application order considering the retreat. (It is recommended to use the bottom-round plastic container which has the capacity almost 1.2 times bigger than the whole amount which you want to mix).
- Fully stir the mixed main component and hardener using electric powered stirrer for 3~5 minutes. Select the stirrer with big capacity and less RPM.
- Stir the mixture up down left right side and front, back and every corner. And if the stirring is finished, scratch down the material on the wall of container and stir them again.
- Use the waterproof coating without additional dilution. (Dilution of aquatan intermediate coat with water may cause the deteriorated physical properties of the product.)

TYPICAL PROPERTIES

Standard color: Green, Gray

ITEM	PRODUCT	Aquathane intermediate coat		Note
		Main component	Hardener	
Appearance		Green and custom color	-	JD-F-201
Mixing ratio		5	1	WT%
Mixing viscosity(Cps)		2,500±500		JD-F-104
Mixed specific gravity(20℃)		1.15±0.05		JD-F-110
Dry time	Set to touch	<24		JD-F-404
	Dry Hard	<36		JD-F-404
Hardness(Shore D)		65±5		JD-F-301
Tensile strength(N/mm ²)		≥2.5		JD-F-306
Tearing strength(N/mm ²)		≥450		JD-F-306
Elongation percentage(%)		≥14.7		JD-F-310

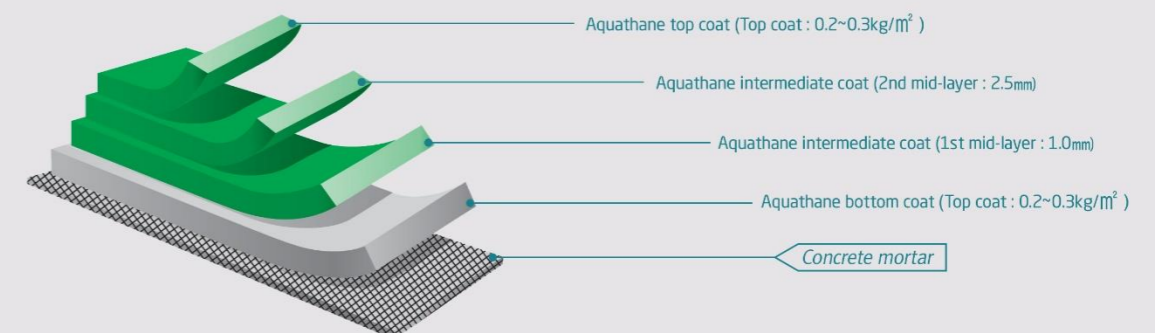
SAFETY PRECAUTIONS

- This is a responsive two component paint. So, mix the product in accordance with the specified ratio and stir uniformly.
- Pot life expired product may be deteriorated in adhesiveness and may get worse in various physical properties. Mix only as much as you need.
- Thinner for general urethane coating and other thinners are strictly prohibited
- Imperfect stirring may cause partial hardening by unmixed coating on the side of mixing container. Scratch the side and stir it again.
- The application thickness shall be based on 2mm or above preferably.
- Keep away from fire or direct sunlight. Keep the product in a dry and cool place at the room temperature of 5~35°C. The remains after using shall be stored in air-tight container.

APPLICATION DIAGRAM

- Application diagram: Common roof waterproof

The application condition is in accordance with general application method and subject to change depending upon the circumstances in the site



Elastic concrete Floor coating

Water soluble polyurethane inorganic floor coating

J-CRETE is formed by the reaction of vegetable oil, Polyisocyanate group, cement based powder containing special additive and aggregate, which is solvent-free and eco-friendly. It also provides strong adhesiveness with strong chemical-resistant concrete. It is a polyurethane three component floor coating with better flexibility and compressive strength than epoxy product.



USES

- Floor in food cooking and manufacturing factory, etc
- Floor in the pharmaceutical and chemical factory, etc
- General office and parking lot floor

THEORETICAL COVERAGE

- 1.90 ~ 2.10 kg/m² (Based on 1mm)

PACKAGE

- Main component : Hardner : Mortar = 3kg : 3kg : 14kg

FEATURES

- Eco-friendly product without volatile organic compound.
- Colloidal dispersive product utilizing the reactivity of polyurethane resin, water and cement.
- Strong chemical resistant to oil, jet fuel, alcohol, alkaline, acidic materials, etc.
- Excellent adhesiveness with concrete and steel.
- Excellent water resistance, durability, cold-resistance and shock-resistance.
- High resistance to compressive strength and excellent restoration power due to elasticity.
- Quick construction time.

SAFETY PRECAUTIONS

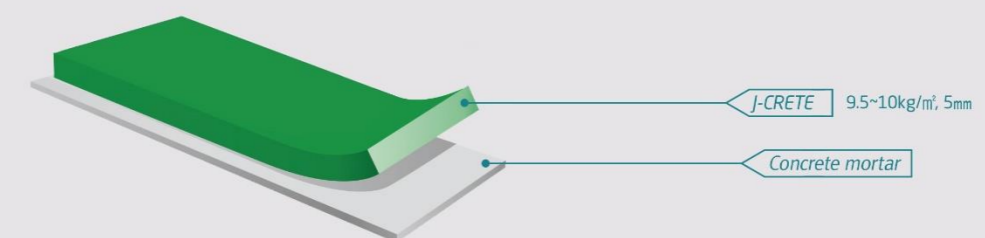
- This is a responsive three component paint. So, mix the product in accordance with the specified ratio (marked on the front of product package) and stir uniformly.
- Pot life expired product may be deteriorated in adhesiveness and may get worse in various physical properties. Mix only as much as you need.
- Refrain from using thinner preferably. When you use it unavoidably, use it within 1% by weight.
- Never use common urethane coating thinner and other thinners.
- Application thickness shall be based on 5mm or thicker preferably.
- Any moisture can be construction on the surface of substrate. Perform application under the moisture absorption rate on the substrate surface of 12% or below.
- Keep away from fire and direct sunlight. Keep in a dry and cool place of 5~35°C and store the remains after using in the airtight container.
- For mixing the product, first mix the main component and hardener. Next, mix the mortar. For total mixing time, fully mix the product for about 3 minutes. Longer mixing time than specified may cause spread problem, bubbles, bad adhesion, etc due to quick hardening time.

TYPICAL PROPERTIES

ITEM	PRODUCT	J-Crete			Note
		Main component	Hardener	Mortar	
Appearance		Colored liquid	Brown liquid	Powder	JD-F-201
Mixing ratio		3	3	14	무계비
Mixed specific gravity(25°C)		2.00±0.10			JD-F-110
Dry time (hrs)	Set to touch	≥24			Hrs
	Dry Hard	≥72			Hrs
Flexural strength(N/mm ²)		≥6.0			KS F 4042
Compressive strength(N/mm ²)		≥20.0			
Shock resistant performance		Shall be free of boring, crack, fine split and flaking			KS F 4937
Attachment performance(N/mm ²)		≥1.2			
Water tight performance		Shall not be permeated into the surface of floor.			

APPLICATION DIAGRAM

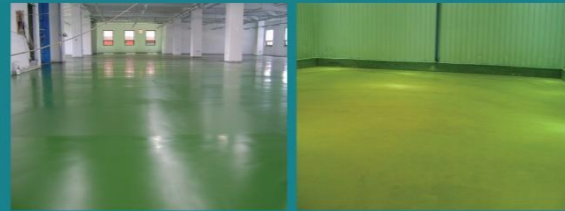
- The application condition is in accordance with general application method and subject to change depending upon the circumstances in the site.



Elastic concrete Floor coating

Elastic concrete-use eco-friendly high hardness floor coating

E-CRETE is formed of reaction of vegetable oil, Polyisocyanate group, cement based powder including special additive and aggregate, which is solvent-free and eco-friendly. It also provides strong adhesiveness with strong chemical-resistance concrete. It is polyurethane three component floor coating with better flexibility and compressive strength than epoxy product.



USES

- Floor in food cooking and manufacturing factory, etc
- Floor in the pharmaceutical and chemical factory, etc
- General office and parking lot floor

THEORETICAL COVERAGE

- 1.90 ~ 2.10 kg/m² (Based on 1mm)

PACKAGE

- Main component : Hardener = 20.0kg : 4.0kg

FEATURES

- Eco-friendly product without volatile organic compound.
- Strong chemical resistant to oil, jet fuel, alcohol, alkaline, acidic materials, etc.
- Excellent adhesiveness with concrete and steel.
- Excellent water resistance, durability, cold-resistance and shock-resistance.
- High resistance to compressive strength and excellent restoration power due to elasticity.
- Quick construction time.

SAFETY PRECAUTIONS

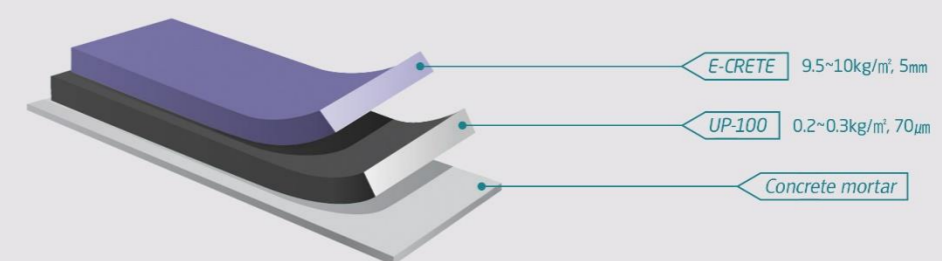
- This is a responsive three component paint. So, mix the product in accordance with the specified ratio (marked on the front of product package) and stir uniformly.
- Pot life expired product may be deteriorated in adhesiveness and may get worse in various physical properties. Mix only as much as you need.
- Refrain from using thinner preferably. When you use it unavoidably, use it within 1% by weight.
- Never use common urethane coating thinner and other thinners.
- Application thickness shall be based on 5mm or thicker preferably.
- Any moisture on the surface of substrate causes bubbles. Perform application under the moisture absorption rate on the substrate surface of 8% or below.
- Keep away from fire and direct sunlight. Keep in a dry and cool place of 5~35°C and store the remains after using in the airtight container.
- For mixing the product, first mix the main component and hardener. Next, mix the mortar. For total mixing time, fully mix the product for about 3 minutes. Longer mixing time than specified may cause spread problem, bubbles, bad adhesion, etc due to quick hardening time.

TYPICAL PROPERTIES

ITEM	PRODUCT	E-Crete			Note
		Main component	Hardener	Mortar	
Appearance		Colored liquid	Brown liquid	Powder	JD-F-201
Mixing ratio		2	1	7	무개비
Mixed specific gravity(25°C)		2.00±0.10			JD-F-110
Dry time	Set to touch	≥24			Hrs
	Dry Hard	≥72			Hrs
Flexural strength(N/mm ²)		≥6.0			KS F 4042
Compressive strength(N/mm ²)		≥20.0			
Shock resistant performance		Shall be free of boring, crack, fine split and flaking			KS F 4937
Attachment performance(N/mm ²)		≥1.2			
Water tight performance		Shall not be permeated into the surface of floor.			

APPLICATION DIAGRAM

- The application condition is in accordance with general application method and subject to change depending upon the circumstances in the site.



Solvent-free Epoxy Floor coatings

Epoxy coatings EF-502 / EF502 (Transparent) / EF-508

EF-502/EF502(Transparent)/EF-508 are two component solvent-free floor coatings composing of Epoxy Resin, Poly amine modified hardener, etc. It is a thick film type floor coating which can cover up to 2~3mm at a time, with excellent adhesiveness, durability, water resistance, anti-abrasion and chemical resistance.



USES (EF-502/EF508)

- Plant floor, Building, APT parking lot floor, etc
- Places requiring anti-dust like electronic parts, precision machine factory, etc

USES (EF-502 Transparent)

- Building, Various office floor, etc and
- Floor required for providing transparency

THEORETICAL COVERAGE

- EF-502(Transparent) - 0.95 ~ 1.15kg/m²(Based on 1mm)
- EF-502 - 1.35 ~ 1.55kg/m²(Based on 1mm)
- EF-508 - 1.50 ~ 1.70kg/m²(Based on 1mm)

APPLICATION METHOD (Mixing)

- Mix the main component and hardener in accordance with the specified mixing ratio.
- It is recommended to use the bottom-round plastic mixing container which has the capacity almost 1.2 times bigger than the whole amount which you want to mix.
- Main component and hardener for flooring coating are packed in fixed amount suiting [EF-502, EF-502 (transparent)-mixing ratio (2:1)], [EF-508-mixing ratio (6:1)], but small amount applied depending upon working site, weather or other conditions shall be measured exactly using a scale before mixing.

APPLICATION METHOD (Application)

- Apply the product starting from the vertical portion to the horizontal portion within pot life using trowel, roller, brush, etc after defining the application order considering the retreat.
- Usually the floor coatings are used without dilution, but sometimes used with adding 1~2% of designated solvent as needed considering bad mix, prevention of bubbles and workability at the low temperature. But, excessive dilution may cause bad hardening, poor strength, flooding, separate color, crack, etc

FEATURES

- Room temperature hardened type with good workability.
- Beautiful appearance due to seamless type.
- Excellent water resistance, durability and chemical resistance.
- Color is adjustable freely.
- Coating thickness is adjustable freely.
- Excellent walk feeling and easy partial repair.

PACKAGE

- EF-502(Transparent) - Main component : Hardener = 11.7kg : 5.8kg
- EF-502 - Main component : Hardener = 16.7kg : 3.3kg
- EF-508 - Main component : Hardener = 18.0kg : 3.0kg

APPLICATION METHOD (Stirring)

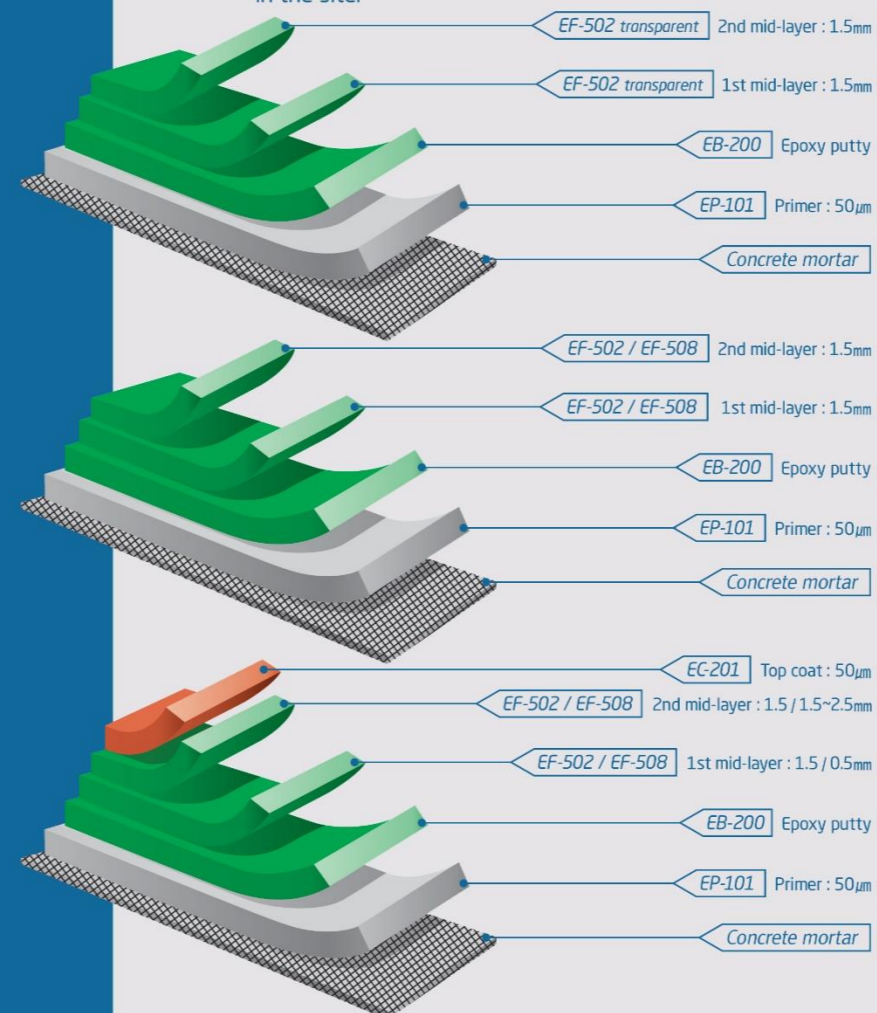
- Fully stir the mixed main component and hardener using electric powered stirrer for 3~5 minutes. It is recommended to select the stirrer with big capacity and less RPM.
- Stir the mixture up down left right side and front, back and every corner. And if the stirring is finished, scratch down the material on the wall of container and stir them again. Then finish the stirring.
- ※ Fully stir every corner for more than 5 minutes to prevent any poor stirring.

TYPICAL PROPERTIES

ITEM	PRODUCT	EF-502 (Transparent)		EF-502		EF-508		Note
		Main component	Hardener	Main component	Hardener	Main component	Hardener	
Appearance	Transparent	Transparent	Transparent	Green or custom color	Mildly lemon yellowt	Green or custom color	Mildly lemon yellowt	JD-F-201
Viscosity	1,500±700cPs	50±5KU	700±200cPs		1,000±200cPs			JD-F-118
Mixing ratio	2	1	5	1	6	1		-
Mixed specific gravity(20℃)	1.05±0.10		1.45±0.10		1.60±0.10			JD-F-110
Pot life(min)	40±20		≥30		≥30			JD-F-104
Dry time	Set to touch	<8 hrs		<8 hrs		<8 hrs		JD-F-404
	Dry Hard	<24 hrs		<24 hrs		<24 hrs		JD-F-404
Hardness(Shore D)	≥80		≥80		≥80			JD-F-301
Compressive strength(N/mm ²)	≥58.8		≥19.6		≥19.6			KS M 3015
Impact strength(KJ/m ²)	≥1.0		≥1.0		≥1.0			KS M ISO 180

APPLICATION DIAGRAM

- Application diagram: EF-502 Transparent (Common floor system), EF-502/508 (Common floor system, Common floor coating system)
- The application condition is in accordance with general application method and subject to change depending upon the circumstances in the site.



SAFETY PRECAUTIONS

- This is responsive two component paint. So, mix the product in accordance with the specified ratio (marked on the front of product package) and stir uniformly.
- Keep away from direct sunlight to avoid the deterioration of contents during transportation or storage, and keep the product in dry and cool place with less humidity (5~25℃).
- Yellowing or pink coloring may occur according to the weather or coating surface condition. For more information, contact our research Lab.
- Thinner can be used within 3% for EF-502 and EF 508, whereas, within 2% for EF-502 (transparent) depending upon the operation condition. But, refrain from using thinner preferably because the excessive thinner may cause adverse effect like delay of hardening speed.
- Pot life expired product may be deteriorated in adhesiveness and may get worse in various physical properties. Mix only as much as you need.
- If you need to increase the coating thickness at a time, any quicker hardening speed due to change of temperature may cause possibility of bubbles.
- For painting equipment, use brush, roller, hook, wide paddle (EF-502 transparent, scraper, hook), etc.

Solvent-free Epoxy embo Floor coating

Epoxy coatings / Solvent free EF-502EB

This is two-component embo solvent-free floor coating which is composed of epoxy resin and polyamide modified hardener, and applies to the Epoxy floor closing coating. It provides excellent anti-abrasion, shock resistance, chemical resistance, noise reduction and anti-slip effect. It is an embo floor coating which can cover up to 600 μ m at a time, and provides excellent noise reduction and anti-slip effect.



USES

- Building, apartment parking lot floor
- Floor requiring noise reduction effect and anti-slip

THEORETICAL COVERAGE

- 0.8 kg/m² (Based on 0.6mm)

PACKAGE

- Main component : Hardener = 20.0kg : 4.0kg

APPLICATION METHOD (Mixing)

- Mix the main component and hardener in accordance with the specified mixing ratio.
- It is recommended to use the bottom-round plastic mixing container which has the capacity almost 1.2 times bigger than the whole amount which you want to mix.
- Main component and hardener for flooring coating are packed in fixed amount, but small amount applied depending upon working site, weather or other conditions shall be measured exactly using a scale before mixing.

APPLICATION METHOD (Application)

- After defining the application order considering the retreat, complete the application within the pot life using roller, embo-dedicated roller or RAKE.
- Uniformly apply the coating and roll the embo-dedicated roller in a single direction and then finish the coating of embo-pattern within pot life.
- If you don't apply immediately after mixing the coatings, that causes exothermic reaction resulting in high temperature of heat and smoke. Be careful of burns or fire. For the thin coating on the surface, apply the coatings with care because the lack of hiding and the different moisture absorption of the surface may cause the imperfect embo-pattern.
- In the event of amine blushing after intermediate coating at the low temperature in winter, you must carry out top coating. Because the washing with amine blushing encountered causes efflorescence, be careful of moisture contamination of water, ice, snow or etc.

FEATURES

- Noise reduction and anti-slip effect.
- Solventless based paint with little or no organic solvent.
- Room temperature hardened type with good workability.
- Excellent water resistance, durability and chemical resistance.
- Color is adjustable freely.

APPLICATION METHOD (Stirring)

- Fully stir the mixed main component and hardener using electric powered stirrer for 3~5 minutes. It is recommended to select the stirrer with big capacity and less RPM.
- Stir the mixture up down left right side and front, back and every corner. And if the stirring is finished, scratch down the material on the wall of container and stir them again. Then finish the stirring.

TYPICAL PROPERTIES

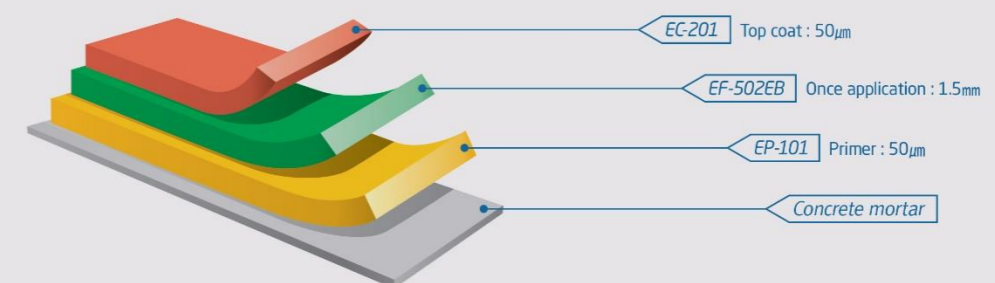
ITEM	PRODUCT	EF-502EB		Note
		Main component	Hardener	
Appearance		Green or Custom color	Lemon yellow emulsion viscous liquid	JD-F-201
Viscosity		12,000±5,000	Paste phase	JD-F-104
Mixing ratio		5	1	-
Mixing viscosity(cPs, 20℃)		12,000±5,000		JD-F-104
Pot life		≥30 hrs		JD-F-405
Dry time	Set to touch	<10 hrs		JD-F-404
	Dry Hard	<24 hrs		JD-F-404
Compressive strength(N/mm ²)		≥58.8		KS F 4923
Tensile strength(N/mm ²)		≥19.6		KS M ISO 180
Impact strength(KJ/m ²)		≥1.0		KS M 3015
Bending strength(N/mm ²)		≥24.5		

SAFETY PRECAUTIONS

- This is a responsive two component coating. Mix the coating in accordance with the specified mixing ratio (marked on the front of product package) and stir uniformly.
- Pot life expired product may be deteriorated in adhesiveness and may get worse in various physical properties. Mix only as much as you need.
- Application thickness shall be based on 0.6mm preferably.
- It is recommended to use the bottom-round plastic mixing container which has the capacity almost 1~2 times bigger than the whole amount which you want to mix.
- Keep the product away from fire and direct sunlight, and keep it in a dry and cool place of 5~23℃. For the remains after using the product, you must store it with sealed in accordance with above method.

APPLICATION DIAGRAM

- The application condition is in accordance with general application method and subject to change depending upon the circumstances in the site.



Solvent-based Epoxy anti-dust Floor coatings

Epoxy coatings / EC-201, EC-202

EC-201/EC-202 are two-component coatings which main components composing of Epoxy Resin, Filler, solvent, etc are mixed with the hardener composing of polyamide and other materials. It provides excellent compatibility with most of epoxy coatings as concrete top coat coating and it also provides superb workability, anti-abrasion, water resistance and chemical resistance.



USES

- Top coat for concrete, wood, common machinery, etc

FEATURES

- Room temperature hardened type with good workability.
- Beautiful appearance due to seamless type.
- Excellent water resistance, durability and chemical resistance.
- Color is adjustable freely.
- Excellent walk feeling and easy partial repair.

THEORETICAL COVERAGE

- 0.2 ~ 0.3 kg/m²

PACKAGE

- Main component : Hardener = 15.0kg : 3.0kg

APPLICATION METHOD

- Surface preparation: Apply on the clean and dry surface where concrete primer is painted.
- Environmental conditions: 1. Temperature: 10~35°C, 2. Humidity: 0~85%
- Applied over: Concrete
- Dilution ratio: Epoxy thinner within 10%
- Application equipment: Brush, Roller, Spray, etc.
- Pot life: 4 hrs (25°C)
- Curing time: Set to Walking- 24 hrs
- Recoat interval: 12~24 hrs after coating

TYPICAL PROPERTIES

ITEM	PRODUCT	EC-201 (coatings)		JEC-202 (coatings)		Note
		Main component	Hardener	Main component	Hardener	
Appearance		Green or custom color	Mildly lemon yellow	Green or custom color	Mildly lemon yellow	JD-F-201
Viscosity(KU, cPs/25°C)		75±5	50±5	700±300	100±50	JD-F-104
Mixing ratio		5	1	5	1	-
Mixed specific gravity(20°C)		1.20±0.10		1.35±0.10		JD-F-110
Mixed viscosity(KU,cPs/25°C)		65±5		200±50		JD-F-104
Pot life(hrs)		≥4		≥4		JD-F-405
Dry time (hrs)	Set to touch	<2		<2		JD-F-404
	Hard dry	<24		<24		JD-F-404

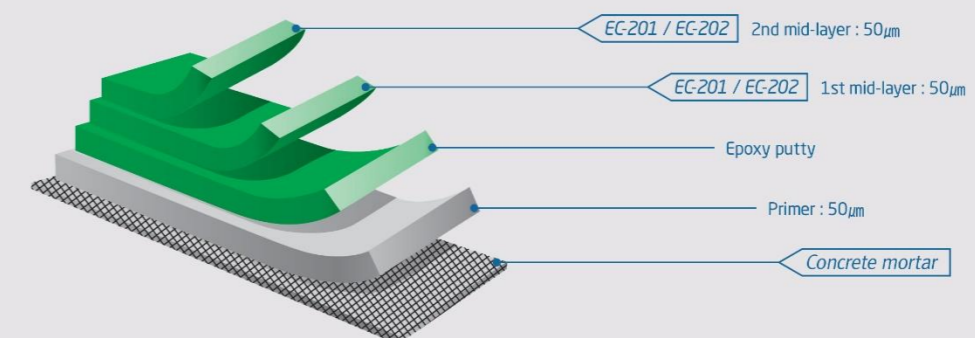
SAFETY PRECAUTIONS

- This is a responsive two component paint. So, mix the product in accordance with the specified ratio (marked on the front of product package) and stir uniformly.
- Pot life expired product may be deteriorated in adhesiveness and may get worse in various physical properties. Mix only as much as you need.
- You must only use the corresponding thinner (Epoxy thinner).
- Your attention is required because rain or water condensation on the surface while paint is hardening may cause discoloration (efflorescence) or loss of gloss.
- Don't use the product at the temperature below 5°C and the humidity above 85%.

APPLICATION DIAGRAM

- Application diagram: Common floor coating system

The application condition is in accordance with general application method and subject to change depending upon the circumstances in the site.



Acid-resistant Epoxy Floor coatings

Epoxy coatings / Solvent free EC-201S / EF-502S

EC-201S is two-component acid-resistant paint which main components composing of epoxy resin, filler, solvent, etc are mixed with hardener composing of polyamide and other materials. It provides excellent compatibility with most of epoxy coatings as concrete top coat coating and it provides superb antiabrasion, water resistance and chemical resistance.

EF-502S is two-component acid-resistant floor coating which is composed of epoxy resin, poly amine modified hardener, etc. It is thick film floor coating which can apply up to 2~3mm at a time and provides excellent adhesion power, durability, anti-abrasion and especially chemical-resistance.



USES

- EC-201S: Top coat for concrete, wood, common machinery, etc
- EF-502S: Used for places requiring anti-dust and chemical resistance like plant floor, building, APT parking lot floor, electronic parts factory, precision machine factory, etc.

FEATURES

- Room temperature hardened type with good workability.
- Beautiful appearance due to seamless type.
- Excellent water resistance, durability and chemical resistance.
- Color is adjustable freely.
- Coating thickness is adjustable freely (EF-502S).
- Excellent walk feeling and easy partial repair.

APPLICATION METHOD

- Surface preparation: Apply on the clean and dry surface where concrete primer is painted.
- Environmental conditions: ① Temperature: 10~35℃
② Humidity: 0~85%
- Applied over: Concrete
- Application equipment: Brush, Roller, Spray, etc.
- Pot life/Dry time: See typical properties
- Recoat interval: 12~24 hrs after coating (25℃)

THEORETICAL COVERAGE

- EC-201S: 0.2 ~ 0.3 kg/m²
- EF-502S: 1.1 ~ 1.2 kg/m² (Based on 1mm)

PACKAGE

- EC-201S ▶ Main component : Hardener = 16.0kg : 4.0kg
- EF-502S ▶ Main component : Hardener = 10.0kg : 5.0kg

SAFETY PRECAUTIONS

- This is a responsive two component paint. So, mix the product in accordance with the specified ratio (marked on the front of product package) and stir uniformly.
- Pot life expired product may be deteriorated in adhesiveness and may get worse in various physical properties. Mix only as much as you need.
- You must only use the corresponding thinner (Epoxy thinner: SE-300).
- Your attention is required because rain or water condensation on the surface while paint is hardening may cause discoloration (efflorescence) or loss of gloss.
- Don't use the product at the temperature below 5℃ and the humidity above 85%.

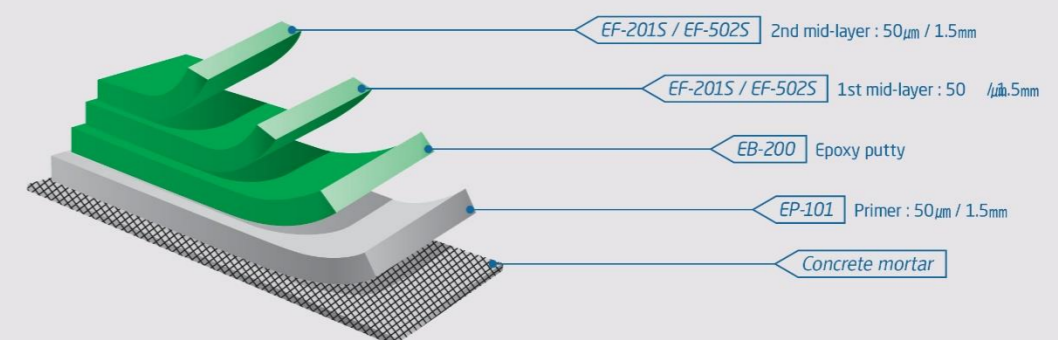
TYPICAL PROPERTIES

ITEM	PRODUCT	EF-201S (Coating)		EF-502S (Solventless epoxy)		Note
		Main component	Hardener	Main component	Hardener	
Appearance		Green or Custom color	Mildly lemon yellow	Light green	Mildly lemon yellow	JD-F-201
Viscosity		70±5	50±5	2,000±500	320±50	JD-F-104
Mixing ratio		4	1	2	1	By weight
Mixed specific gravity(20℃)		1.23±0.1		1.15±0.05		JD-F-110
Mixed viscosity(25℃)		270±20		1,500±500		JD-F-104
Pot life		≥4 hrs		30±20		JD-F-405
Dry time	Set to touch	< 2 hrs		5±1		JD-F-404
	Hard dry	< 24 hrs		36±8		JD-F-404
Hardness(Shore D)		-		≥80		JD-F-301
Acid-resistance	Sulfuric acid	No marked discoloration and coating destruction		No marked discoloration and coating destruction		5~70% 48hr
	Hydrochloric acid	No marked discoloration and coating destruction		No marked discoloration and coating destruction		5~30% 48hr
	Nitric acid	No marked discoloration and coating destruction		No marked discoloration and coating destruction		5~30% 48hr
	Phosphoric acid	No marked discoloration and coating destruction		No marked discoloration and coating destruction		5~70% 48hr
	H2O2	No marked discoloration and coating destruction		No marked discoloration and coating destruction		5~35% 48hr
Alkali-resistance	Caustic soda	No marked discoloration and coating destruction		No marked discoloration and coating destruction		Saturated solution 48hr
	Ammonia water	No marked discoloration and coating destruction		No marked discoloration and coating destruction		Saturated solution 48hr

APPLICATION DIAGRAM

- Application diagram: Common floor coating system

The application condition is in accordance with general application method and subject to change depending upon the circumstances in the site.



Epoxy resin mortar Floor coatings

Epoxy color resin mortar / Epoxy transparent resin mortar

ER-601 / ER-605 are two component color resin mortar floor coating composing of epoxy resin and poly amine modified hardener. They are epoxy color resin mortar floor coatings which can cover up 5~10mm at a time, with excellent adhesiveness, durability, water resistance, anti-abrasion and chemical resistance.



USES

- Plant floor, building, APT parking lot floor
- Places requiring anti-dust like electronic parts, precision machine factory, etc
- Places requiring noise-abatement like school, hospital, laboratory, etc

THEORETICAL COVERAGE

- ER-601 ▶ Quartz sand(8kg)+ER-601(2kg)/m²(Based on 5mm)
- ER-605M ▶ Quartz sand(8kg)+ER-605M(3kg)/m²(Based on 5mm)

APPLICATION METHOD (Mixing)

- Mix the main component and hardener in accordance with the specified mixing ratio (3:5:1)/(4:1) and exactly calculate the required amount for the coating thickness. And then uniformly mix ER-601/ER-605M
- It is recommended to use MORTAR MIXER as mixing container.
- Main component and hardener for mortar coating are packed in fixed amount suiting the mixing ratio, but small amount applied depending upon working site, weather or other conditions shall be measured exactly using a scale before mixing.

APPLICATION METHOD (Application)

- Finish applying the coatings within pot life using trowel after defining the application order considering the retreat.
- Usually the mortar coatings are used without dilution, but sometimes used with adding 1~3% of designated solvent as needed considering bad mixture, prevention of bubbles and workability at the low temperature. But, excessive dilution may cause bad hardening, poor strength, crack, etc

FEATURES

- Beautiful appearance and very hygienic.
- Excellent anti-abrasion, impact resistance and durability with easy repair coating.
- Can cover up to 5~10mm at a time.
- Excellent water resistance, durability and chemical resistance.

PACKAGE

- ER-601 ▶ Main component : Hardener = 18.7kg : 5.3kg
- ER-605M ▶ Main component : Hardener = 20kg : 5kg

APPLICATION METHOD (Stirring)

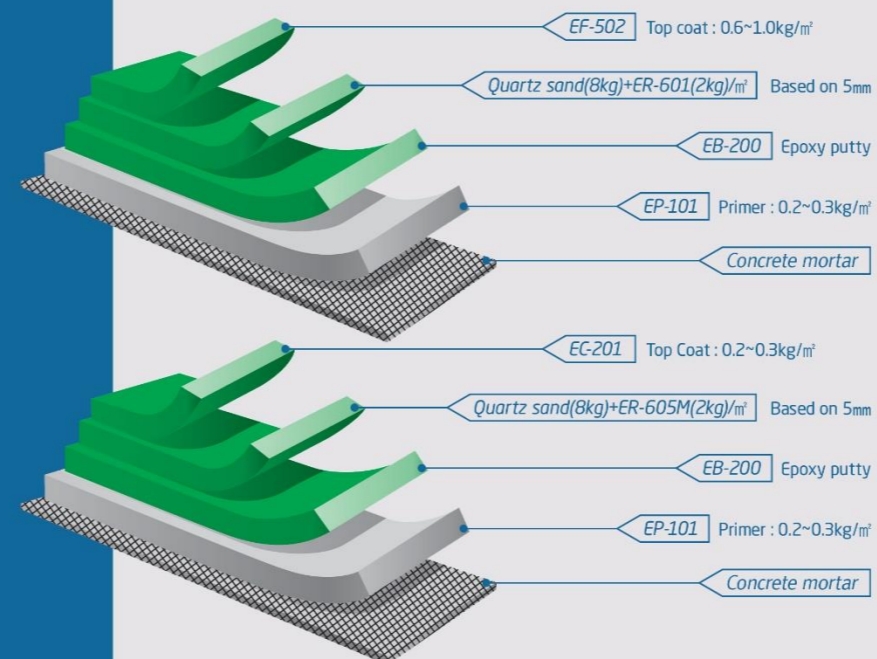
- Mix the main component and hardener. Stir it using MORTAR MIXER so that mixed coating can be fully coated with silica.
- Control the mixing time paying attention to pot life.

TYPICAL PROPERTIES

ITEM	PRODUCT	ER-601 (Epoxy color resin mortar)		ER-605M (Epoxy transparent resin mortar)		Note
		Main component	Hardener	Main component	Hardener	
Appearance		Green or Custom color	Mildly lemon yellow	Mildly lemon yellow	Mildly lemon yellow	JD-F-201
Mixing ratio		3.5	1	4	1	-
Mixed specific gravity(20℃)		1.45±0.1		1.10±0.10		JD-F-110
Mixed viscosity(25℃)		1,000±300		800±300		JD-F-104
Pot life(min)		40±20		40±20		JD-F-405
Dry time (hrs)	Set to touch	60(min)±20(min)		60(min)±20(min)		JD-F-404
	Hard dry	24±4		4±1		JD-F-404
Hardness(Shore D)		≥80		≥80		JD-F-301
Tensile strength(N/mm ²)		≥21.5		≥25.5		KS F 4923
Compressive strength(N/mm ²)		≥44.1		≥49		KS M 3015
Bending strength(N/mm ²)		≥44.1		≥49		

APPLICATION DIAGRAM

- The application condition is in accordance with general application method and subject to change depending upon the circumstances in the site.



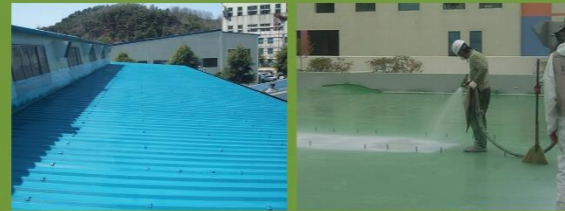
SAFETY PRECAUTIONS

- This is a responsive two component paint. So, mix the product in accordance with the specified ratio.
- Pot life expired product may be deteriorated in adhesiveness and may get worse in various physical properties. Mix only as much as you need.
- Thinner can be used within the limit of 1~3% depending upon the operation condition.
- For painting equipment, use wide paddle like putty knife, etc.
- If you use the product in winter, hardening time becomes longer according to the temperature. Recoat after hardening fully.
- Interlayer floating problem may occur depending upon the selection of product, contact us or take a test before you select the product.
- For more information, see our technical data or contact our research Lab.

Urea waterproof coating/Floor coating

hybrid ultra-rapid hardening pure type polyurea / QuickStar® JH-75 , JH-90 , JU-95

QuickStar® JH-75 , JH-90 , JU-95 is made up of 100% solid and volatile organic compound (VOC)-free hybrid type two-component polyurea. JH-75,90 was designed for concrete waterproof & anti-corrosion, roof waterproof, concrete waterproof & anti-corrosion for common building floor, which has quick Track Free Time within one minute, excellent mechanical properties and waterproofing property. Accordingly this product is applicable to wide variety of fields. JU-95 was designed for the underground waterproof, waterproof & anti-corrosion against concrete in contact with water for long term, excellent chemical resistance, etc, which has quick GEL TIME within 15 seconds, excellent water resistance and chemical resistance. Accordingly this product is applicable to wide variety of fields.



USES

JH-75 / JH-90

- Roof waterproofing with heat insulation
- Floor coating for common building
- Floor coating for sports facility

JU-95

- Vehicles (e.g. high speed train), ship exterior coating,
- Waterproof for water treatment facilities like tank/pipeline, etc
- Coating for offshore plant/steel structure, etc,
- Waterproof for tunnel interior, floor coating for sports facilities

FEATURES (JH-75, JH-90, JU-95)

- Velocity per second hardening allows for marked reduction of construction time.
- Application in the wide area in the short period by fewer workers. /Excellent workability.
- Applicable to various places like pitched roof, corrugated slate, etc.
- Excellent cold-resistance, water resistance, durability and chemical resistance.
- 100% solid solvent-free type and doesn't produce volatile organic compound.
- 100% solid and absolutely free of heavy metal components.

THEORETICAL COVERAGE

- 1.00 ~ 1.20 kg/m² (Based on 1mm / including loss rate 10%)
- ※The loss rate is subject to change depending upon the site situation

PACKAGE

- A liquid (Hardner) : B liquid(Main component) = 216kg : 200kg

TYPICAL PROPERTIES

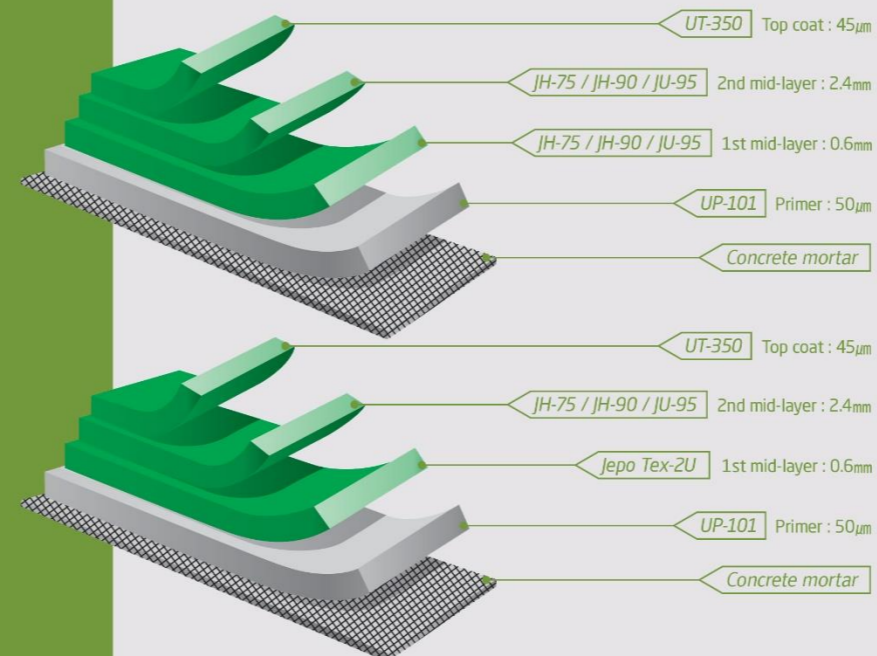
ITEM	PRODUCT	JH-75		JH-90		JU-95		Note
		A liquid (Hardner)	B liquid (Main component)	A liquid (Hardner)	B liquid (Main component)	A liquid (Hardner)	B liquid (Main component)	
Appearance		Transparent viscous liquid	Various colors liquid	Transparent viscous liquid	Various colors liquid	Transparent viscous liquid	Various colors liquid	JD-F-201
Mixing ratio		1(1.08)	1(1)	1(1.08)	1(1)	1(1.08)	1(1)	By volume (by weight)
TYPE		hybrid		hybrid		Pure urea		-
Mixed specific gravity(20°C)		1.00±0.10		1.00±0.10		1.00±0.10		JD-F-110
Dry time	Take free time	<1 min		<1 min		<1 min		Min
	Early harden time	<40 min		<40 min		<40 min		Min
Hardness(Shore D)		75±5		90±5		95±5		ASTM D 2240
Tensile strength(N/mm ²)		≥13.7		≥13.7		≥16		KS F 4922
Tearing strength(N/mm ²)		≥50		≥50		≥50		
Elongation percentage(%)		≥300		≥300		≥300		1kg, 1000rev
Anti-abrasive		≤50		≤50		≤20		

APPLICATION DIAGRAM

- The application condition is in accordance with general application method and subject to change depending upon the circumstances in the site.
- JH-75 / JH-90 (Common floor coating / Roof waterproofing with heat insulation)
- JU-95 (Anti-corrosion against offshore plant/steel structure, in-line skate)

SAFETY PRECAUTIONS

- This is a responsive two-component coating. Apply using the dedicated equipment in accordance with the specified mixing ratio.
- Please do not use to thinner.
- Application thickness shall be based on 2mm preferably.



Functional diatomite board

Eco-friendly building interior finish material

SDB's Eco-diaboard is an ultra porous interior panel containing more than 50% of natural diatomite material. It is a wallcovering and a functional board adding the function of diatomite to the effect of interior.



WHAT IS DIATOMITE?

Diatomite is a kind of sedimentary rock which is formed of siliceous remains of diatoms, unicellular algae that are fossilized on the bottom of the sea or the lake and hardened like stone. It is an excellent natural material with humidity control, deodorization and heat insulation having fine porous structure with diameter of 0.1~0.2.

FUNCTION ECO DIABOARD

Humidity control

Diatomite can absorb water no less than 2~3 times than its weight by making humidity come in and out innumerable pores with diameter of 0.1~0.2. When the humidity is high, it absorbs the humidity (absorption power=150), to the contrary, when it is dry, it emits the humidity. In such manner, it controls the room humidity uniformly at 40~60%.

Deodorization

Diatomite are formed of porous structure no less than 5,000 times compared to charcoal, so it is very effective to deodorize smell from smoke, food, foul smell from toilet, smell from pets, etc. This is because diatomite absorbs and resolves the causative substances.

Resolution of formaldehyde and harmful gases

This diatomite doesn't reemit reversibly even after absorbing and resolving formaldehyde and all kinds of VOCs causing sick house syndrome, but eliminates them in the process of resolution in the capture holes. Deodorization acts rapidly within 10 minutes against various harmful gases, is followed by odorless state which ordinary people feel within 7 hours under the bad ventilation and the deodorization is completed after 24 hours.

Antifungus (Antibacterial function)

Diatomite controls the propagation of fungi and mite resulting from humid condition. It doesn't produce fungi on the wall itself because of strong alkalinity.

Acoustic absorption

Diatomite maintains the absorption and echo of sound by the ultrafine and structure. It makes the interior atmosphere calm and cozy.

Heat insulation

Diatomite has low heat transfer rate, high melting point, low thermal expansivity, low shrinkage factor at high temperature, great heat shock resistance and higher strength with increase of temperature. Diatomite highly helps to reduce air-conditioning and heating cost due to excellent heat insulator contributed to these various properties.

Nonflammability

Diatomite is nonflammable even in fire of 1000°C in the event of fire and doesn't produce toxic gases.

Air cleaning

Diatomite neutralizes and eliminates the active oxygen causing the aging and diseases, and generates anion called Vitamin in the air and converts to the air in which anti-oxidation is actively produced.

EASY CONSTRUCTION

It can be used for wallcovering and ceiling as a lightweight board. It provides easy construction by means of cutting (saw), rounding (hole) and is also suitable for DIY (Do-It-Yourself). It is fabricated as simple dry panel and can be constructed on the wall easily, and you can create the various highlight lines using the coupling member.

PRODUCT SPECIFICATIONS

- Dimension: W 600mm*L 300mm
- Color: White ivory
- Package: BOX/18 sheets,
- Adhesive: Dedicated inorganic eco-friendly adhesive

USES

Housing facilities, living room, kitchen, interior wall, balcony wall, hospital, sanatorium, book shelf, public facilities interior



Inorganic wooden Floor adhesive

Nontoxic nonflammable inorganic eco-friendly liquid one-pack type - Ecosive I-1000

Ecosive I-1000 series is a silicate inorganic binder-based nontoxic adhesive and is suitable for adhesion of wood, cement, paper and metal. And it is an eco-friendly water soluble adhesive allowing for both natural curing nature harden and thermoset heat harden. It has an inorganic inherent nonflammable, nontoxic and anti-fungal function, and Tvoc, voc's, toluene, formaldehyde, etc to harmful the human were not applied to the product design originally. Upon the request of customer, antibiotic and deodorizing function may be intensified additionally.



USES

- Cement + Cement
- Cement + Wood / Plywood / Paper
- Wood / Plywood / Paper + Wood / Plywood / Paper
- Metal + Wood / Plywood / Paper
- Etc

ETC

- Package: 800g, 5kg / 4pack
- Storage: Store at the temperature higher than +5°C
- Shelf life: 3 Months with sealed.

PROPERTIES

- TYPE: One liquid type water soluble inorganic adhesive
- Curing conditions
Natural harden: 25°C ▶ 3~4 hrs
Thermoset: 60°C ~ 80°C ▶ 1~2 hrs
- Nonvolatile: 55±5(150°C X 1hr)
- Viscosity(Cps/25°C): 90,000±10,000
- PH: 11~12
- Main solvent: water
- Adhesive coating thickness ≥ 60μm
- Nontoxic, Anti-fungal, Nonflammable, Eco-friendly product

APPLICATION METHOD

- Surface preparation: All surfaces must be free of oil, moisture, sand, dust or other foreign matters.
- Environmental condition: Temperature 5°C or above, humidity 80% or below.
- Application equipment: Spreader or spatula

SAFETY PRECAUTIONS

- Make sure you fully stir the product before using.
- Don't use this product mixing with the product from other company.
- Don't apply this product to organic coating film coated with existing oil paint, etc (bad interlayer adhesion).
- Avoid the application when the temperature of workplace and adhered object is below 0°C. (Water-based coating may cause the faulty adhesion resulting from the freezing.)
- Keep out of reach of the children.
- Make it a rule to keep first-in, first-out.
- Store at the temperature of + 5°C.
- Remains after using shall be stored in airtight container.
- Use the product within the shelf life.
- After application, wash the application equipment, machine and line in the water to avoid reuse and the damage of line due to rapid dry.
- Dispose of waste adhesive through the waste disposal company authorized by Ministry of Environment.

Unpoisonous

ECO-Friendly Product

Nonflammable

Anti-mold

MMA anti-slip coating

Anti-slip coating/Stencil - JM Coat-NS / JM Coat-ST

JM Coat-NS and JM Coat-ST are intended for anti-slip of the road and stencil construction based on MMA resin. It provides excellent adhesiveness with asphalt, concrete, and great durability. Its advantage is quick dry time. It is used for Danger Frequent Accidents such as the sloped, curved road, etc, anti-slip purposed such as school zone, elderly care center, etc.



USES

- Anti-slip purpose of school zone
- Anti-slip purpose of crossroad, slope way, sharp curve, etc
- Anti-slip purpose of crosswalk, places requiring anti-slip for vehicle traffic, etc

FEATURES

- Excellent anti-abrasion and durability. Easy to repair if damaged.
- Excellent adhesiveness with ascon and asphalt.
- Application can be performed in winter and excellent workability.
- Fast curing type which can be applied in a short time.
- Coating film is freely adjustable.

THEORETICAL COVERAGE

- 3.2kg/m² (2.5 ~ 3.0mm)

PACKAGE

- Main component : Hardener = 25kg : 0.28kg

APPLICATION METHOD (Surface preparation)

- Substrate to apply ascon shall be cured fully.
- Wash out oil component contained in ascon for the curing time and fully dry.
- Fully remove laitance by the surface preparation.

APPLICATION METHOD (Stirring)

- After mixing the main component, hardener, Quatrz sand in accordance with the specified mixing ratio, fully stir the mixed main component and hardener using electric powered stirrer for 3~5 minutes. It is recommended to select the stirrer with big capacity and less RPM.
- Stir the mixture up down left right side and front, back and every corner. And if the stirring is finished, scratch down the material on the wall of container and stir them again.

APPLICATION METHOD (Application)

- In case of concrete surface, apply the primer additionally.
- Uniformly apply the mixed product using hook/spray.
- After application, fully spray the aggregate to avoid slippery before hardening.
- When it is hardened, remove the remained aggregate and finish the work.

TYPICAL PROPERTIES

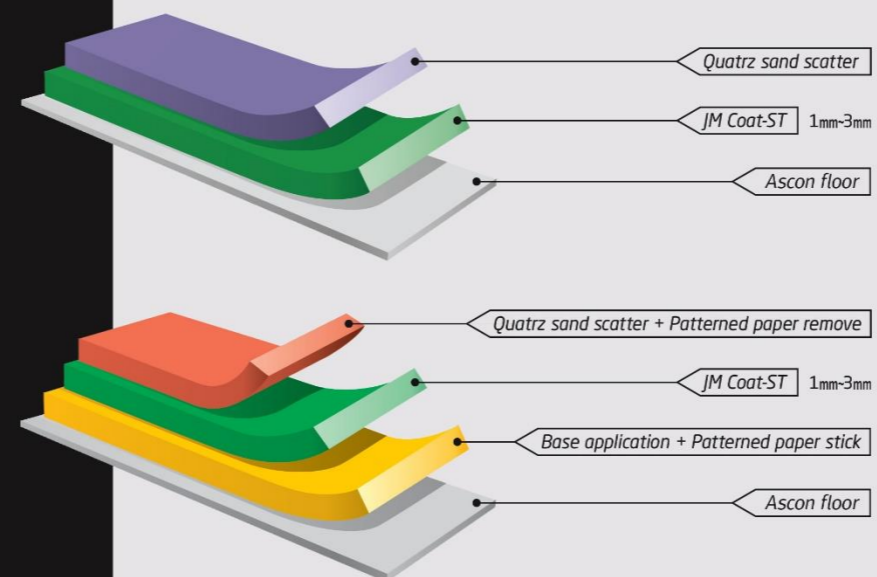
ITEM	PRODUCT	MMA Anti-slip coating	Note
Appearance		Viscous liquid	JD-F-201
Color		Reddish brown, Green and other colors	Visual check
Viscous(KU/25℃)		80±10	JD-F-110
Dry time	Pot life	10 ~ 12	measure : min(25℃)
	Dry hard	30 ~ 60	
	Set to vehicle traffic	120 ~ 240	
Hardness		JM Coat-NS/ST : Hardner : Filker = 18 : 0.2 : 5	-

※ Dry time is adjustable so that it can be similar at any temperature between -20℃ and 50℃. (Adjustable depending upon the amount of hardener)

APPLICATION DIAGRAM

- Application diagram (JM Coat - NS/ST)

The application condition is in accordance with general application method and subject to change depending upon the circumstances in the site.



SAFETY PRECAUTIONS

- This is a responsive two component coating. So, mix the product in accordance with the specified mixing ratio and stir uniformly. Aggregate shall be completely dry free of moisture and free of fine particles.
- New paved asphalt surface cannot be applicable and you must remove oil adequately before application.
- Under the imperfect hardening condition, strength and adhesiveness are likely to be weaken, which can lead to peeling problem. You must pass the vehicles after the coating is fully hardened.
- Because the product is flammable, you must pay attention to fire during storage or application.
- The product may cause disorder in your health. Never intake, inhale fume or let the product contact your skin.
- In case of intake or skin contact, take measures in accordance with the instructions stated in MSDS (Material Safety Data Sheet) and then consult your doctor.