

K501

EPOXY ZINC PRIMER

KCI ZINC 100

Description

Two-component zinc primer based on epoxy resin and polyamide

Characteristics

- 1) Can be overcoated after a short interval.
- 2) Provides cathodic protection
- 3) Good corrosive prevention properties
- 4) Can also use as a holding primer for various maintenance system

Usages

Container, Steel Structure, bridge and chemical equipment, Offshore structures etc.

Physical Data

Items	Property
Appearance(Color)	Gray
Solid Volume Ratio(%)	Approx. 49
Flash point (Closed Cup, °C)	Approx. 29(B), 28 (H)
Organic solvent content (wt.%)	Approx. 17 (B), 64 (H)
Storage(Dark and Cool Place)	6 months
Adhesive Property (Cross Cut)	25/25 (2mmX2mm, 100EA)
Impact Test	Over 30cm (½inchX300g)
Salt Spray Resistance	Unilateral Within 2mm (35°C, 5%NaClX168hrs)

*(B) Base, (H) Hardener

Mixing ratio

Base:Hardener=86.5:13.5 (by wt)

Recommended dry film thickness(µm)

10~75 (Wet film thickness 20~153)

Theoretical spread rate(m²/ℓ)

Approx. 14.0 (Dry film thickness 35µm based on)

* The practical spread rate for coating is differentiated by the substrate's state, application methods and conditions.

Drying time

Items/Temp.	5°C	20°C	30°C
Set to touch	1hr	15mins	10mins
Dry through	12hrs	4hrs	2hrs

Pot life

Items/Temp.	5°C	20°C	30°C
Pot life	16hrs	8hrs	6hrs

Recoating interval

Items/Temp.	5°C	20°C	30°C
Minimum	24hrs	12hrs	8hrs
Maximum	-	-	-

* Recoating applied for the same kinds coating only

* Drying time can change according to temperature, ventilation and relative humidity

Methods of application

Airless Spray	Recommended Thinner:D512Thinner, G319Thinner, A311Thinner
	Diluent ratio(wt):below 5~20%
	Tip size:0.019~0.021 inch
Surface preparation	Spraying pressure: 100~150kg/cm² Blasting cleaned, SIS Sa 2½

Recommended paint (Subsequent coat, if necessary)

<Top coat> Epoxy, Chlorinated rubber

Packing

18ℓ (Base:26.9kg, Hardener:4.2kg)

Precaution

- 1) Once the unit has been mixed it must be used within the working pot life specified.
- 2) Respiratory protection is recommended when applying this material in confined spaces or stagnant air.
- 3) Preferred temperature during application is above 5°C(41°F), and relative humidity preferable below 85%.
- 4) Use with adequate ventilation.
- 5) Protect skin and eyes, and avoid prolonged breathing of solvent vapors during application of solvent vapors during application and drying.
- 6) Keep away from sparks and open flames.
- 7) Observe all precautionary notices on containers.
- 8) Matters related to the environment and safety, please refer to the GHS MSDS of our product.
- 9) Please contact our Technical Institute or A/S center on details.

Date of Preparation : 2018. 01. 01

KANGNAM JEVISCO CO., LTD.

Disclaimer

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K502

SOLVENT-BASED INORGANIC ZINC RICH SHOP PRIMER - IMO Resolution MSC.215 (82), IMO Resolution MSC.288 (87)

KCI ZINC 1000

Description

A unique inorganic zinc rich shop primer, based on alkyl silicate liquid.

Characteristics

- 1) Quick drying
- 2) Excellent resistance to abrasion, heat and weathering
- 3) Good corrosive prevention properties
- 4) No-trouble in welding and gas - cutting

Usages

Abrasive blasting to the grade of Sa 2^{1/2}(ISO 8501-1:2007).
AS a temporary protective primer for the coating of Steelwork prior to the fabrication process

Physical Data

Items	Property
Appearance(Color)	Gray, O/RED, GREEN, BLUE etc.
Solid Volume Ratio(%)	Approx. 30
Flash point (Closed Cup, °C)	Approx. 12 (B), 6 (H)
Organic solvent content (wt.%)	Approx. 36 (B), 81 (H)
Storage(Dark and Cool Place)	12 months
Outdoor Exposure	Good(6months)
Salt Spray Resistance	At Dry film 15µm, Will not the rust and blistering(35°C, 5%NaClX240hrs)

*(B) Base, (H) Hardener

Mixing ratio : Base : Hardener=70 : 30 (by wt)

Recommended dry film thickness(µm) : 15

Theoretical spread rate(m²/l)

Approx. 20 (Dry film thickness 15µm based on)

* The practical spread rate for coating is differentiated by the substrate's state, application methods and conditions.

Drying time

Items/Temp.	5°C	20°C	30°C
Set to touch	3mins	1min	0.5min
Dry through	40mins	10mins	4mins

Pot life

Items/Temp.	5°C	20°C	30°C
Pot life	12hrs	12hrs	12hrs

Recoating interval

Items/Temp.	5°C	20°C	30°C
Minimum	24hrs	24hrs	24hrs

* Recoating applied for top coating only (However, Above Alkyd Primer 7Days)

* Drying time can change according to temperature, ventilation and relative humidity

Methods of application

Airless Spray	Recommended Thinner:A204, A101Thinner
	Diluent ratio(wt):below 25~35%
	Tip size:0.017~0.019 inch
	Spraying pressure: 75~100kg/cm ²
Surface preparation	Blasting cleaned, SIS Sa 2 ^{1/2}

Recommended paint

 (Subsequent coat, if necessary)

<Top coat> Various Primer & Top Coat

Packing : 20l (Base : 11.2l, Hardener : 8.8l)

Precaution

- 1) Once the unit has been mixed it must be used within the working pot life specified.
- 2) Respiratory protection is recommended when applying this material in confined spaces or stagnant air.
- 3) Preferred temperature during application is above 5°C(41°F), and relative humidity preferable below 85%.
- 4) Use with adequate ventilation.
- 5) Protect skin and eyes, and avoid prolonged breathing of solvent vapors during application of solvent vapors during application and drying.
- 6) Keep away from sparks and open flames.
- 7) Observe all precautionary notices on containers.
- 8) Matters related to the environment and safety, please refer to the GHS MSDS of our product
- 9) Please contact our Technical Institute or A/S center on details.

SURFACE PREPARATION & APPLICATION CONDITIONS

- 1) Remove salt and other water soluble contaminants by fresh water hosing.
- 2) Remove oil and grease, etc., with a suitable detergent or degreaser.
- 3) Remove rust, mill-scale and other loose material by abrasive blasting to the grade of Sa 2^{1/2}(ISO 8501-1:1988).
- 4) The surface profile is recommended in the range of 30~75 microns (ISO 8503-1:1988).
- 5) Blasting shall not Be carried out when :
The relative humidity is above 85% ; or The surface

temperature of steel is less than 3°C above the dew point.

- 6) Remove dust and dirt by high-pressure air before paint application.
- 7) Can be applied to well-prepared bare steel only.
- 8) Cleanliness : All surfaces to be coated must be clean, dry and free from contamination.
- 9) Residual soluble salt levels prior to coating application must not exceed 50mg/m² as extracted and measured in accordance with ISO 8502-9(1998).

COATING SYSTEMS

See the coating systems in this manual.

If there is any doubt, please consult KANGNAM JEVISCO Paint for the standard procedure to be followed.

LIMITATIONS

- 1) Minimum film thickness

Film thicknesses below the specified Average 13 microns may result in premature breakdown of the shop primer and substrate corrosion, necessitating additional secondary surface preparation.

- 2) Maximum film thickness

Film thicknesses above the specified Average 20 microns may adversely affect welding and cutting properties and may affect the performance of subsequently applied coating systems. Thicknesses above 30 microns should be avoided

- 3) Environmental conditions

Overcoating information is given for guidance only and is subject to regional variation depending upon local climate and environmental conditions.

(1) Automatic coating line : Optimum coating substrate temperature is 30~40 °C.

(2) General coating condition : Please note that drying time may vary depending on substrate temperature.

CERTIFICATE

When used as part of an approved scheme, this material has the following certification :

- Weld Quality (The overweldable Shop Primer) : DNV-GL
- Weld Quality (Pre Fabrication Primer) : LR
- Weld Quality (Shop primer for welded steel structure) : BV
- IMO PSPC Resolution MSC.215 (82) : ABS
- IMO PSPC Resolution MSC.215 (82) : BV
- IMO PSPC Resolution MSC.215 (82) : DNV-GL
- IMO PSPC Resolution MSC.215 (82) : KR
- IMO PSPC Resolution MSC.215 (82) : LR
- IMO PSPC Resolution MSC.215 (82) : NK
- IMO PSPC Resolution MSC.215 (82) : RINA
- IMO PSPC Resolution MSC.288 (87) : ABS
- IMO PSPC Resolution MSC.288 (87) : BV
- IMO PSPC Resolution MSC.288 (87) : DNV-GL

- IMO PSPC Resolution MSC.288 (87) : KR
- IMO PSPC Resolution MSC.288 (87) : LR
- IMO PSPC Resolution MSC.288 (87) : NK

SAFETY PRECAUTIONS

- 1) A health and safety data sheet for this product is available upon request. Minimum precautions to be taken in dealing with all paints are:
 - 2) Avoid skin and eye contact.
 - 3) If paint comes into contact with the skin, wash with warm water and/or a suitable cleanser. If paint comes into contact with the eyes, flush with copious amounts of water and seek immediate medical attention.
 - 4) Paint products contain flammable materials. Please keep them away from sparks and prohibit any smoking in the vicinity.
 - 5) Observe all health and safety data on the container.

DISCLAIMER

- 1) The information given on the sheet is to the best of our knowledge and accurate at the time of printing. Since conditions of use are beyond the manufacture's control, information contained herein is without warranty, implied or otherwise, and the suitability of the material for the use contemplated is the sole responsibility of the buyer.
- 2) The information contained on this date sheet is subject to modification at any time due to our policy of modification and product development. beyond the manufacture's control, information contained herein is without warranty, implied or otherwise, and the suitability of the material for the use contemplated is the sole responsibility of the buyer.
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Date of Preparation : 2018.03.01

KANGNAM JEVISCO CO., LTD.

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K530

MODIFIED CHLORINATED RUBBER ACRYLIC FINISH

KCI ECO RABA

Description

Top coat paint using modified chlorinated rubber acrylic resin as a vehicle

Characteristics

- 1) Quick drying.
- 2) Good adhesive property
- 3) Good Appearance
- 4) Excellent workability

Usages

Steel structure, PCM steel sheet and refractory top coat paint etc.

Physical Data

Items	Property
Appearance(Color)	White and Other Colours
Solid Volume Ratio(%)	Approx. 52
Flash point (Closed Cup, °C)	Approx. 21
Organic solvent content (wt.%)	Approx. 31
Storage(Dark and Cool Place)	12 months
Gloss(60°)	10%, 50%
AAhesive Property (Cross Cut)	25/25 (2mmX2mm, 25EA, 0.8T CR Steel Plate, PCM Plate)

Recommended dry film thickness(μm)

50~100 (Wet film thickness 96~192)

Theoretical spread rate(m²/l)

Approx. 6.9 (Dry film thickness 75μm based on)

* The practical spread rate for coating is differentiated by the substrate's state, application methods and conditions.

Drying time

Items/Temp.	5°C	20°C	30°C
Set to touch	1hr 30mins	1hr	30mins
Dry through	6hrs	4hrs	3hrs

Recoating interval

Items/Temp.	5°C	20°C	30°C
Minimum	6hrs	4hrs	30mins
Maximun	-	-	-

* Recoating applied for the same kinds coating only

* Drying time can change according to temperature, ventilation and relative humidity

Methods of application

Airless Spray	Recommended Thinner:G101Thinner
	Diluent ratio(vol):below 5~10%
	Tip size:0.017~0.021 inch
	Spraying pressure: 100~150kg/cm ²
Surface preparation	Hand & Power tool cleaned, SIS St2 or st3

Recommended paint (Subsequent coat, if necessary)

<Primer> QD rust primer, Epoxy, A chlorinated rubber

Packing

17ℓ

Precaution

- 1) Once the unit has been mixed it must be used
- 2) Respiratory protection is recommended when applying this material in confined spaces or stagnant air.
- 3) Preferred temperature during application is above 5°C(41°F), and relative humidity preferable below 85%.
- 4) Use with adequate ventilation.
- 5) Protect skin and eyes, and avoid prolonged breathing of solvent vapors during application of solvent vapors during application and drying.
- 6) Keep away from sparks and open flames.
- 7) Observe all precautionary notices on containers.
- 8) Matters related to the environment and safety, please refer to the GHS MSDS of our product.
- 9) Please contact our Technical Institute or A/S center on details.

Date of Preparation : 2018.01.01

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K551

TWO-PACK HIGH-BUILD ANTI-CORROSIVE PAINT- IMO Resolution MSC.288 (87)

KCI EDMARINE K21 AC

Description

An universal anti-corrosive paint for cargo oil tanks of crude oil tankers, ship bottoms, bootops, topsides, exposed decks and other exposed parts.

Characteristics

- 1) Excellent corrosion resistance.
- 2) Can be over coated with unlimited coating interval.
- 3) High-build applicability.
- 4) Good comparability with a wide range of topcoats including, chlorinated rubber and various anti-fouling paints.

Usages

It's type approved as complying with the requirements of IMO Resolution MSC.218 (87) for use on new buildings.

Physical Data

Items	Property
Appearance(Color)	Gray, Brown, O/White & Various
Solid Volume Ratio(%)	Approx. 65
Flash point (Closed Cup, °C)	Approx. 11, (B), 10 (H)
Organic solvent content (wt.%)	Approx. 26 (B), 42 (H)
Storage(Dark and Cool Place)	12 months
Adhesive Property (Cross Cut)	25/25 (2mmX2mm, 25EA)
Salt Spray Resistance	Unilateral Within 2mm (35°C, 5%NaClX1200hrs)

*(B) Base, (H) Hardener

Mixing ratio

Base:Hardener=70:10(by wt)

Recommended dry film thickness(µm)

160 (Wet film thickness 246)

Theoretical spread rate(m²/l)

Approx. 4.1 (Dry film thickness 160µm based on)

* The practical spread rate for coating is differentiated by the substrate's state, application methods and conditions.

Drying time

Items/Temp.	5°C	20°C	30°C
Set to touch	3hrs	2hrs	1hrs
Dry through	24hrs	10hrs	8hrs

Pot life

Items/Temp.	5°C	20°C	30°C
Pot life	16hrs	8hrs	6hrs

Recoating interval

Items/Temp.	5°C	20°C	30°C
Minimum	24hrs	10hrs	8hrs
Maximum	-	-	-

* Recoating applied for the same kinds coating only

* Drying time can change according to temperature, ventilation and relative humidity

Methods of application

Airless Spray	Recommended Thinner: D512Thinner
	Diluent ratio(wt):below 0~5%(by vol)
	Tip size:0.021~0.023 inch
	Spraying pressure: 100 ~ 150kg/cm ²

Recommended paint (Subsequent coat, if necessary)

<Top coat> Epoxy, Acryl Urethane HB

Packing

20l (Base:23.3kg, Hardener:3.3kg)

SURFACE PREPARATION & APPLICATION CONDITIONS

- 1) The steel surface shall be prepared so that the coating selected can achieve an even distribution at the required NDFI and have an adequate adhesion by removing sharp edges, grinding weld beads and removing weld spatter and any other surface contaminant to grade P2.(ISO 8501-3:2001)
- 2) Edges to be treated to a rounded radius of minimum 2 mm, or subjected to "three pass" grinding or at least equivalent process before painting.
- 3) All surfaces to be coated must be clean and dry and have contamination removed.
- 4) High pressure fresh water wash or fresh water wash, as appropriate and remove all oil, grease, soluble contaminants and other foreign matter in accordance with solvent cleaning.
- 5) **Residual dust levels** prior to paint application must not exceed rating "1" for dust size classes "3", "4" or "5".(ISO 8502-3:1993).
- 6) **Residual soluble salt levels** prior to coating application must not 50mg/m² as extracted and measured in accordance with ISO 8502-9(1998).

- SHOP PRIMER

- 1) **Approved shop primers**, compatible with KCI Edmarine K21 A/C must be applied in accordance with PSPC MSC.288 (87) to a minimum standard of Sa.2½ (ISO 8501-1:2007) and over a blast profile of 30~75 microns (ISO 8503-1/2:1988).
- 2) The surface on approved shop primer should be treated in accordance with IMO PSPC requirements.
- 3) Block construction welds, areas of corrosion and damages to the shop primer must be abrasive blasted to Sa.2½ (ISO 8501-1:2007).
- 4) **Non approved shop primers** must be completely removed by abrasive blasting to Sa.2½ (ISO 8501-1:2007).
- 5) In some cases abrasive blasting to Sa.2 (ISO 8501-1:2007),

removing at least 70% of the intact primer, may be acceptable.

6) Block construction welds, areas of corrosion and damages to the shop primer must be abrasive blasted to Sa.2½ (ISO 8501-1:2007).

7) The surface profile on any areas where abrasive blasting has been carried out must lie in the range 30~75 microns (ISO 8503-1/2:1988).

8) **Blasting shall not be carried out when** : the relative humidity is above 85% or the surface temperature of steel is less than 3°C above the dew point.

9) **Erection joints St.3 or better or Sa.2½ where practicable**

10) **For inner bottom**

- Damages up to 20% of the area to be coated to be treated to minimum St.3.
- Contiguous damages over 25 m² or over 20% of the area to be coated, Sa.2½ shall be applied.

11) **For underdeck :**

- Damages up to 3% of area to be coated to be treated to minimum St.3.
- Contiguous damages over 25 m² or over 3% of the area to be coated, Sa.2½ shall be applied.

12) Coating in overlap to be feathered.

COATING SYSTEMS

See the coating systems in this manual.

There shall be a minimum of two stripe coats and two spray coats, except that the second stripe coat, by way of welded seams only, may be reduced in scope where it is proven that the NDFT can be met by the coats applied in order to avoid unnecessary over thickness. Any reduction in scope of the second stripe coat shall be fully detailed in the CTF.

Stripe coats should be applied by brush or roller as appropriate for the area concerned and must be applied as a coherent film. If there is any doubt, please consult KANGNAM JEVISCO Paint for the standard procedure to be followed.

LIMITATIONS

Film thickness

1) **Nominal dry film thickness(NDFT)** : The specified scheme dry film thickness of 320 microns must be achieved on at least 90% of the total coated surface area. A minimum dry film thickness, equivalent to 90% of that specified, must be achieved on the remaining 10%.

2) **Minimum film thickness** : KCI Edmarine K21 A/C will not coalesce satisfactorily, without thinning, at dry film thicknesses below 80 microns when applied by airless-spray.

3) **Maximum film thickness** : Where excessive overlapping is unavoidable on e.g. corners, or where erection joint line coating is overlapped onto coating applied at the block coating stage, occasional thicknesses up to 1000 microns may be expected. KANGNAM JEVISCO Co., Ltd. must be consulted when other than a small number of film thickness readings fall outside of this range.

4) **Environmental conditions** : Overcoating information is given for guidance only and is subject to regional variation depending upon local climate and environmental conditions.

Apply in good weather. Temperature of the surface to be coated must be at least 3°C(5°F) above the dew point and the relative humidity must not exceed 85%. For optimum application properties bring the material to 20~30°C, unless specifically instructed otherwise, prior to mixing and application

At the time of application paint, substrate and air temperatures must be between -5°C and +40°C.

CERTIFICATE

When used as part of an approved scheme, this material has the following certification :

- Type Approval Certificate : Germanischer Lloyd (DNVGL) , NK(Nippon Kaiji Kyokai), BV(Bureau Veritas), ABS(American Bureau of Shipping), LR(Lloyd Register of Shipping)
- Type : 2-component high-build modified epoxy coating.
- Preferable preceding coating : Zinc-shopped

SAFETY PRECAUTIONS

- 1) A health and safety data sheet for this product is available upon request minimum precautions to be taken in dealing with all paints are :
- 2) Avoid skin and eye contact.
- 3) If paint comes into contact with the skin, wash with warm water and/or a suitable cleanser. If paint comes into contact with the eyes, flush with copious amounts of water and seek immediate medical attention.
- 4) Ensure good ventilation
- 5) Paint products contain flammable materials. Please keep them
- 6) Observe all health and safety data on the container.

DISCLAIMER

- 1) The information given on the sheet is to the best of our knowledge and accurate at the time of printing. Since conditions of use are beyond the manufacture's control, information contained herein is without warranty, implied or otherwise, and the suitability of the material for the use contemplated is the sole responsibility of the buyer.
- 2) The information contained on this data sheet is subject to Modification at any time due to our policy of modification and product development.

REPAIR

- Any defective areas, e.g., pin-holes, bubbles, voids, etc., shall be marked up and appropriate repairs effected. All such repairs shall be re-checked and documented.

Date of Preparation : 2018.01.01

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K553

TWO-PACK EPOXY GENERAL PURPOSE PRIMER-PAINTS FOR COATING FRESH WATER TANKS(FDA APPROVED PRODUCTS)

KCI EDMARINE UPR

Description

General purpose two component high-build polyamide cured epoxy primer Indoors

Characteristics

- 1) Can be over coated with epoxy, alkyd, chlorinated rubber, vinyl and polyurethane coatings.
- 2) Recommendable for immersion and non-immersion exposure.
- 3) Excellent resistance to chemicals.
- 4) Good abrasion resistance.

Usages

For primer such as liquid cargo tanks, fuel tanks, lubricant tanks, drinking water tanks, oil tanks.

Physical Data

Items	Property
Appearance(Color)	Reddish silver, Gray
Solid Volume Ratio(%)	Approx. 52
Flash point (Closed Cup, °C)	Approx. 28 (B), 28 (H)
Organic solvent content (wt.%)	Approx. 24 (B), 54 (H)
Storage(Dark and Cool Place)	12 months
Adhesive Property (Cross Cut)	25/25 (2mmX2mm, 25EA)
Salt Spray Resistance	Unilateral Within 2mm (35°C, 5% NaClX168hrs)

*(B) Base, (H) Hardener

Mixing ratio Base : Hardener=86.5 : 13.5(by wt)

Recommended dry film thickness(μm)

50~100 (Wet film thickness 96~192)

Theoretical spread rate(m²/l)

Approx. 10.4 (Dry film thickness 50μm based on)

* The practical spread rate for coating is differentiated by the substrate's state, application methods and conditions.

Drying time

Items/Temp.	5°C	20°C	30°C
Set to touch	2hrs	30mins	20mins
Dry through	48hrs	8hrs	6hrs

Pot life

Items/Temp.	5°C	20°C	30°C
Pot life	15hrs	12hrs	8hrs

Recoating interval

Items/Temp.	5°C		20°C		30°C	
	Exp	Non	Exp	Non	Exp	Non
Min. (Epoxy, Urethane, CR, Vinyl, Alkyd)	24hrs		10hrs		8hrs	
Max. Epoxy, Urethane	3Mo	6Mo	3Mo	6Mo	2Mo	4Mo
CR, Vinyl, Alkyd	21days		10days		7days	

* Exp=Exposure, Non=Non-exposure, Mo=Month(s)

* Recoating applied for the same kinds coating only

* Drying time can change according to temperature, ventilation and relative humidity

Methods of application

Airless Spray	Recommended Thinner: D512Thinner
	Diluent ratio(wt):below 5~15%(by vol)
	Tip size:0.019~0.021 inch
	Spraying pressure: 100~150kg/cm ²
Surface preparation	Blasting cleaned, SIS Sa 2½

Recommended paint (Subsequent coat, if necessary)

<Top coat> Epoxy & Various top coat

Packing

20l (Base:23.35kg, Hardener:3.65kg),

Precaution

- 1) Once the unit has been mixed it must be used within the working pot life specified.
- 2) Respiratory protection is recommended when applying this material in confined spaces or stagnant air.
- 3) Preferred temperature during application is above 5°C(41°F), and relative humidity preferable below 85%.
- 4) Use with adequate ventilation.
- 5) Protect skin and eyes, and avoid prolonged breathing of solvent vapors during application of solvent vapors during application and drying.
- 6) Keep away from sparks and open flames.
- 7) Observe all precautionary notices on containers.
- 8) Matters related to the environment and safety, please refer to the GHS MSDS of our product.
- 9) Please contact our Technical Institute or A/S center on details.

Date of Preparation : 2018.09.01

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K554

TWO-PACK HIGH-BUILD EPOXY PAINT

KCI EDMARINE PR HB

Description

A high-build polyamide-cured epoxy primer

Characteristics

- 1) Excellent chemical resistance.
- 2) Excellent corrosion resistance.
- 3) Tough and strong films.
- 4) Good adhesion on bare steel and shop-primed surfaces.
- 5) Excellent high-build applicability.

Usages

Steel Structure, cargo holds, decks and deck fittings etc.

Physical Data

Items	Property
Appearance(Color)	Off White & Various
Solid Volume Ratio(%)	Approx. 58
Flash point (Closed Cup, °C)	Approx. 4 (B), 29 (H)
Organic solvent content (wt.%)	Approx. 35 (B), 50 (H)
Storage(Dark and Cool Place)	12 months
Adhesive Property (Cross Cut)	25/25 (2mmX2mm, 25EA)

*(B) Base, (H) Hardener

Mixing ratio

Base:Hardener=6:1(by wt)

Recommended dry film thickness(μm)

75~125 (Wet film thickness 129~216)

Theoretical spread rate(m²/ℓ)

Approx. 7.7 (Dry film thickness 75μm based on)

* The practical spread rate for coating is differentiated by the substrate's state, application methods and conditions.

Drying time

Items/Temp.	5°C	20°C	30°C
Set to touch	3hrs	2hrs	2hrs
Dry through	36hrs	16hrs	12hrs

Pot life

Items/Temp.	5°C	20°C	30°C
Pot life	16hrs	8hrs	6hrs

Recoating interval

Items/Temp.	5°C	20°C	30°C
Minimum	36hrs	16hrs	12hrs
Maximum	-	-	-

* Recoating applied for the same kinds coating only

* Drying time can change according to temperature, ventilation and relative humidity

Methods of application

Airless Spray	Recommended Thinner: D512 THINNER
	Diluent ratio(wt):below 0~5%(by vol)
	Tip size:0.021~0.027 inch
	Spraying pressure: 100 ~ 150kg/cm ²
Surface preparation	Blasting cleaned, SIS Sa 2½

Recommended paint (Subsequent coat, if necessary)

<Top coat> Urethane, Epoxy

Packing

20ℓ (Base : 24kg, Hardener : 4kg)

Precaution

- 1) Once the unit has been mixed it must be used within the working pot life specified.
- 2) Respiratory protection is recommended when applying this material in confined spaces or stagnant air.
- 3) Preferred temperature during application is above 5°C(41°F), and relative humidity preferable below 85%.
- 4) Use with adequate ventilation.
- 5) Protect skin and eyes, and avoid prolonged breathing of solvent vapors during application of solvent vapors during application and drying.
- 6) Keep away from sparks and open flames.
- 7) Observe all precautionary notices on containers.
- 8) Matters related to the environment and safety, please refer to the GHS MSDS of our product.
- 9) Please contact our Technical Institute or A/S center on details.

Date of Preparation : 2018.01.01

KANGNAM JEVISCO CO., LTD.

Disclaimer

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K580

SOLVENT FREE EPOXY COATING FOR DRINKING WATER TANK

- FDA for Drinking water and KWWA KC type approval for water works

KCI EDCOAT NS

Description

Two component solvent free amine cured tank coating.

Characteristics

- 1) Ships and storage tanks with excellent corrosion resistance
- 2) Outstanding resistance to water.
- 3) One coat protection for steel structures.
- 4) Good adhesion to surfaces.
- 5) Good resistance to various chemicals.
- 6) Good visibility due to light color.

Usages

Oil/ballast and aliphatic petroleum product. Also suitable as coating system for storage and transport of drinking water

Physical Data

Items	Property
Appearance(Color)	Off White
Flash point (Closed Cup, °C)	Approx. 58 (B), 58 (H)
Organic solvent content (wt.%)	Approx. 0 (B), 0 (H)
Storage(Dark and Cool Place)	12 months
Adhesive Property (Cross Cut)	25/25 (2mmX2mm, 25EA)
Impact Test	Over 30cm (½inchX300g)

*(B) Base, (H) Hardener

Mixing ratio

Base : Hardener=83 : 17(by wt)

Recommended dry film thickness(μm)

250 ~ 500

Theoretical spread rate(m²/ℓ)

Approx. 3.3 (Dry film thickness 300μm based on)

* The practical spread rate for coating is differentiated by the substrate's state, application methods and conditions.

Drying time

Items/Temp.	5°C	20°C	30°C
Set to touch	10hrs	6hrs	4hrs
Dry through	36hrs	20hrs	16hrs

Pot life

Items/Temp.	5°C	20°C	30°C
Pot life	4hrs	2hrs	1.5hrs

Recoating interval

Items/Temp.	5°C	20°C	30°C
Minimum	36hrs	20hrs	16hrs
Maximum	7days	7days	7days

* Recoating applied for the same kinds coating only

* Drying time can change according to temperature, ventilation and relative humidity

Methods of application

Airless Spray	Recommended Thinner: - (Cleaning Thinner : D512Thinner
	Diluent ratio(wt): -
	Tip size:0.019~0.023 inch
	Spraying pressure: 200 ~ 300kg/cm ²
Surface preparation	Blasting cleaned, SIS Sa 2½

Packing

15ℓ (Base : 16.6kg, Hardener : 3.4kg)

Precaution

- 1) Once the unit has been mixed it must be used within the working pot life specified.
- 2) Respiratory protection is recommended when applying this material in confined spaces or stagnant air.
- 3) Preferred temperature during application is above 5°C(41°F), and relative humidity preferable below 85%.
- 4) Use with adequate ventilation.
- 5) Protect skin and eyes, and avoid prolonged breathing of solvent vapors during application of solvent vapors during application and drying.
- 6) Keep away from sparks and open flames.
- 7) Observe all precautionary notices on containers.
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Date of Preparation : 2018. 01. 01

KANGNAM JEVISCO CO., LTD.

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U337

Urethane Top Coat Finish-(SPS-KPIC 5003-1756) KPIC STANADARD CERTIFICATION ORGANIZATION PAINT

ACRYL URETHANE HB

Description

A high gloss durable finishing based on acrylic resin and polyurethane formulated for use over exposed surface of non-immersed areas

Characteristics

- 1) Excellent weather resistance.
- 2) Excellent resistance to chemicals.
- 3) Excellent gloss retention.
- 4) Good applicability.

Usages

Container, Steel Structure, bridge and chemical equipment, Offshore structures Top coating etc.

Physical Data

Items	Property
Appearance(Color)	White & Various, Semi-Gloss
Solid Volume Ratio(%)	Approx. 58
Flash point (Closed Cup, °C)	Approx. 27 (B), 8 (H)
Organic solvent content (wt.%)	Approx. 32 (B), 50 (H)
Storage(Dark and Cool Place)	12 months
Gloss(60°, %)	Approx. 80 ↑ (semi-gloss order productions)
Pencil hardness	Over "HB"(Mitsubishi uni×45°)
Adhesive Property (Cross Cut)	100/100 (1mmX1mm, 100EA)
Chemical Resistance(Acid)	No Peeling, blistering (20°C, 5% H ₂ SO ₄ ×48hrs)
Chemical Resistance(Alkali)	No Peeling, blistering (20°C, 5% NaOH ×48hrs)
Water resistance	Good(20°CX240hrs)
QUV Resistance	Gloss retention 90% over(300hrs)

*(B) Base, (H) Hardener

Mixing ratio : Base : Hardener=87 : 13(by wt)

Recommended dry film thickness(μm)

40~75 (Wet film thickness69~129)

Theoretical spread rate(m²/ℓ)

Approx. 11.6 (Dry film thickness 50μm based on)

* The practical spread rate for coating is differentiated by the substrate's state, application methods and conditions.

Drying time

Items/Temp.	5°C	20°C	30°C
Set to touch	1hr	30mins.	20mins.
Dry through	8hrs	3hrs.	2hrs.

Pot life

Items/Temp.	5°C	20°C	30°C
Pot life	12hrs	6hrs	4hrs

Recoating interval

Items/Temp.	5°C	20°C	30°C
Minimum	12hrs	6hrs	4hrs
Maximun	12months	12months	12months

* Recoating applied for the same kinds coating only

* Drying time can change according to temperature, ventilation and relative humidity

Methods of application

Airless Spray	Recommended Thinner: G501Thinner
	Diluent ratio(wt):below 10~20%(by vol)
	Tip size:0.015~0.019 inch
	Spraying pressure: 100 ~ 150kg/cm ²
Surface preparation	Hand & Power tool cleaned, SIS St2 or st3

Recommended paint (Subsequent coat, if necessary)

<Base coat> Epoxy, Acryl Urethane primer

Packing : 18ℓ (Base : 18.3kg, Hardener : 2.6kg)

Precaution

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- 7) Observe all precautionary notices on containers.
- 8) Matters related to the environment and safety, please refer to the GHS MSDS of our product.
- 9) Please contact our Technical Institute or A/S center on details.

Date of Preparation : 2016. 01. 01

KANGNAM JEVISCO CO., LTD.

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