

K502

SOLVENT-BASED INORGANIC ZINC RICH SHOP PRIMER

-(SPS-KPIC 5006-1759) KPIC STANDARD CERTIFICATION ORGANIZATION PAINT, 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 2½(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. 11 (B), 11 (H)
Organic solvent content (wt.%)	Approx. 36 (B), 81 (H)
Storage(Dark and Cool Place)	12 months
Outdoor Exposure	Good
Salt Spray Resistance	At Dry film 15µm, Will not the rust and blistering(35°C, 5%NaClX168hrs)

*(B) Base, (H) Hardener

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

Recommended dry film thickness(µm) : 15

Theoretical spread rate(m²/l)

Approx. 20.0 (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
Maximun	Free	Free	Free

* 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:A204, A101Thinner
	Diluent ratio(wt):below 25~35%
	Tip size:0.017~0.019 inch
	Spraying pressure: 75 ~ 100kg/cm²
Surface preparation	Blasting cleaned, SIS Sa 2½

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 below 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 2½(ISO 8501-1:1988).

- 4) The surface profile must lie in the range 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) The surface profile must lie in the range 30~75 microns (ISO 8503-1:1988).
- 7) Remove dust and dirt by high-pressure air before paint application.
- 6) Can be applied to well-prepared bare steel only.
- 7) Cleanliness : All surfaces to be coated must be clean, dry and free from contamination.
- 8) Residual dust levels prior to paint application must not exceed rating "1" for dust size classes "3", "4" or "5".(ISO 8502-3:1993).
- 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 15 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 15 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 give for guidance only and is subject to regional variation depending upon local climate and environmental conditions.

For optimum application properties bring the material to 30~40°C, unless specifically instructed otherwise, prior to mixing and application.

CERTIFICATE

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

- Weld Quality : The overweldable Shop Primer (GL)
- Weld Quality : Pre Fabrication Primer (LR)
- Weld Quality : Shop Primer (DNV)
- IMO PSPC Resolution MSC.215 (82) : American Bureau Shipping(ABS)
 - IMO PSPC Resolution MSC.215 (82) : Bureau Veritas (BV)

- IMO PSPC Resolution MSC.215 (82) : Det Norske Veritas (DNV)
- IMO PSPC Resolution MSC.215 (82) : Germanischer Lloyd (GL)
- IMO PSPC Resolution MSC.215 (82) : Korea Register (KR)
- IMO PSPC Resolution MSC.215 (82) : Lloyd's Register (LR)
- IMO PSPC Resolution MSC.215 (82) - Nippon Kaiji Kyokai(NK)
- IMO PSPC Resolution MSC.215 (82) - Registro Italiano

Navale(RINA)

- IMO PSPC Resolution MSC.288 (87) : American Bureau

Shipping(ABS)

- IMO PSPC Resolution MSC.288 (87) : Korea Register (KR)
- IMO PSPC Resolution MSC.288 (87) : Lloyd's Register (LR)

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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KANGNAM JEVISCO CO., LTD.

Disclaimer

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