

Product Description

A two components high solid, surface and moisture tolerant pure ceramic epoxy anti-corrosive primer reinforced with MIO.

Features

- Excellent durability in wide range of corrosive environment.
- Excellent anti corrosion primer suitable for C5M or C5I corrosion protection.
- Suitable for ferrous and non ferrous substrate with light sweeping or sanding to roughen the surface.
- Excellent mechanical and physical properties for heavy duty application
- Moisture tolerant and suitable for hydro blasting or high pressure water jetting surfaces. Cure under high humidity environment.
- Compatible to various subsequent coating.

Typical Uses

Suitable for use as one or two coat primer or as tie coat over zinc rich primer in both new building and as heavy duty maintenance primer for a wide range of anti corrosive coating systems for off shore, petrochemical, chemical plant, bridges and industrial application. It can apply on damp surface with high humidity and extended overcoatability enable efficient and flexible application condition for full coating system. It has excellent mechanical and physical properties such as adhesion, impact and abrasion resistance which minimise mechanical damage during handling and transportation.

Physical Data

Color	:	Light Grey, Red Brown, Black
Flash Points	:	Base : 15.0 °C Hardener : 11.0 °C
Volume Solid	:	87+/- 2%
VOC(as supplied)	:	137g/L
Shelf Life @25°C / indoor	:	24 months

Typical Thickness : 125 ~ 300µ dried film.

Drying Time(at Dry Film Thickness 100µ)	Temperature	10°C	20°C	30°C
	Surface Dry	8.0 hrs	4.5 hrs	3.5 hrs
Hard Dry	15 hrs	10.0 hrs	8.0 hrs	
Painting interval:	Minimum	15 hrs	10 hrs	8.0 hrs
	Max. (self)	180 days	180 D	180D
Pot Life		7.5 hrs	5.5hrs	3.5hrs
Theoretical coverage (at DFT 125- 300µ)		0.14~0.344 L/m ² ; 7.1 ~ 2.9m ² /L		

Service temperature	-60 to 150°C (dry)
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Application Data

Mixing ratio : Base : hardener = 87 : 13 (by weight)

Application Method : airless spray, roller, brush

Mixing Procedure: Add part B into part A and power mix for at least two minutes or until homogeneous.

Drying schedule : Drying by solvent evaporation and chemical cross linking. Higher film thickness, insufficient ventilation, or lower temperature will require longer drying time. Excessive humidity or condensation on the surface can interfere with the drying cause discoloration and may result in a surface haze. Any haze or contamination must be removed by water washing before recoating.

This product requires the substrate temperature to be above the dew point (+ 3~5 °C). Condensation due to substrate temperatures below dew point can cause flash rust on metal and adhesion will be affected.

Color Different : The paint use as primer or anti fouling may have slight color variance between batches. Similarly, the paint under sun light exposure may fade and chalk.

Application Procedure

Mix properly the paint before use.

- Flush equipment with epoxy thinner before use.
- Mix the paint (part A and Part B accordingly to mixing ratio) thoroughly until homogeneous.
- Thin with epoxy thinner only if necessary for workability.
- When applying by conventional spray, use adequate air pressure and volume for proper atomisation.
- Apply a wet coat in even parallel passes, overlap 50% to avoid holidays and pin hole.
- Excessive thickness can prolong drying and sagging.
- Clean up all equipment with thinner immediately after use.
- Keep containers tightly close and store in proper storage area.

Condition of Application

Use brush or roller with 1/8" nap. Apply at sufficient thickness and avoid repeating rolling to have good levelling.

Temperature	:	Min 5 °C ; Max 50 °C
Humidity	:	Maximum 85 % R.H.
For Airless spray :-		
Tip Size	:	Graco 623, 723 or equivalent
Paint Output pressure	:	14.7 – 17.7 MPa (g)
Viscosity	:	1.5 ~ 2.5 Pa.s
Thinning	:	0 – 10 % by volume

during and after application until the coating is cured. The ventilation system should be effective to prevent solvent vapour concentration from reaching lower explosion limit for the product and to ensure exposure limit to the personnel to be below permissible exposure limit.

Surface Preparation

General :
Surfaces must be clean and dry, all contaminants like dirt, dust, oil must be removed by appropriate method to ensure good adhesion.

Abrasive blast clean
Abrasive blast clean to Sa 2.5 (ISO-8501) or SSPC-SP6. In case of hydro blasting or hydro jetting to remove existing coating, ginger rust should be removed and blow dry before application. Surface profile must be a minimum of 50 microns.

Shop primed steelwork
Weld seam and damaged area should be cleaned to a minimum St3 or SSPC-SP3. The shop primed steelwork should be repaired for any rust and free from any contaminant with suitable secondary surface preparation such as spot blast, sweeping or power tooling.

Caution : All electrical equipment and installations should be made and properly grounded. In areas where explosion hazards exist, workmen should be used non-ferrous tools, conductive shoes and non-sparking tools.

Clean-up : Use Hana Paint epoxy thinner (Hana Thinner E) or hydrocarbon solvent for cleaning. Observe safety precautions when using the solvents. In case of spillage, absorb and dispose the material and used container according to local required regulations or through licensed waste collector.

Disclaimer

Data, specifications, directions and recommendations given in this data sheet represent test results or experience obtained under controlled or specially defined circumstances. Their accuracy, completeness or appropriateness under the actual conditions of any intended use is not guaranteed and must be determined by user. The products are delivered and any technical assistance is given subject to our GENERAL CONDITIONS OF SALE, DELIVERY AND SERVICE and, unless otherwise expressly agreed in writing, manufacturer and seller assume no liability in excess of that stated therein for results obtained, injury, direct or consequential damage incurred from the use as recommended above or otherwise.

Limited Warranty

Whilst we endeavour to ensure that all advice we give about this product is correct and manufacture according to standard quality control system, however we have no control over either the quality or condition of the substrate or many other factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage arising out of the use of this product.

Performance Data

Properties	Test Method	Evaluation
Pull off Strength	ASTM D4541-02	> 20kgf/cm ² (2Mpa)
Salt Spray (5% NaCl solution)	ASTM B117	2000hrs, passed C5M, as system
Humidity (50 °C, 100% RH)	ASTM D1748	1500hrs, passed C5M, as system

Safety Precaution and Clean-up

Safety : Read and follow the material safety data sheet (MSDS) before use. Employ normal safety precautions. Put on necessary personal protection equipment when handling and use this product.

Ventilation : when working in a confined workplace, thorough air ventilation must be used