

STABILIS EP-GARD GF-Epoxy Coating

Chemical Resistance Epoxy Glass Flake Coating

Product Description

A two components high build and hard epoxy coating reinforce with glass flake with excellent chemical resistance.

Features

- Excellent durability in wide range of corrosive environment.
- Easy to use spray, brush, roller
- Excellent chemical resistance for chemicals, petroleum products, water, salt water, alkalis and acids.
- Suitable for tank internal and external
- Excellent mechanical and physical properties for heavy duty application
- resistance to sea water and water, oil etc

Typical Uses

Suitable for use as protective coating for petroleum and chemical tanks, fresh water tanks and pipeline internal & external wall . It has excellent chemical resistance to various chemicals, mechanical and physical properties such as adhesion, impact and abrasion resistance which minimise mechanical damage during handling and transportation.

Physical Data

Color : White, Light Grey,

cream, brown

Flash Points : Base : 13.0 °C

Hardener: 15.5 °C

Volume Solid : 65+/- 2% VOC(as supplied) 371 g/L Shelf Life @25°C / indoor 24 months

Typical Thickness: 100 ~ 200 µ dried film.

Drying	Temperature	10°C	20°C	30°C
Time(at				
Dry Film	Surface Dry	2.0 hrs	1.0hrs	0.5 hrs
Thickness 125µ)	Hard Dry	12 hrs	6.0 hrs	4.5 hrs
Painting	Minimum	12 hrs	6 hrs	4.5 hrs
interval:	Max. (self)	30 days	30 days	30days
Pot LIfe		7.0 hrs	5.0hrs	3.0hrs
Theoretical coverage		0.153~0.308 L/m ² ;		
(at DFT 100- 150μ)		$6.3 \sim 3.2 \text{m}^2/\text{L}$		
Service temperature		-60 to 150 °C (dry)		

Application Data

Mixing ratio: Base: hardener = 80: 20 (by weight) Application Method: airless spray, roller, brush

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

homogeneous.

Drying Drying by solvent evaporation and schedule: 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.

Application Procedure

Mix properly the paint before use.

- a) Flush equipment with epoxy thinner before use.
- b) Mix the paint (part A and Part B accordingly to mixing ratio) thoroughly until homogeneous.
- Thin with Hana Thinner E only if necessary for workability.
- d) When applying by conventional spray, use adequate air pressure and volume for proper atomisation.
- e) Apply a wet coat in even parallel passes, overlap 50% to avoid holidays and pin hole.
- f) Excessive thickness can prolong drying and sagging.
- g) Clean up all equipment with thinner immediately
- 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 619, 621 or

equivalent



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Paint Output : 14.7 - 17.7 MPa (g)

pressure

Viscosity : $1.0 \sim 1.5$ Pa.s Thinning : 0 - 10% by volume

Surface Preparation

General:

Surfaces must be clean and dry, all contaminants like dirt, dust, oil must be remove 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 remove 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 repair for any rust and free from any contaminant with suitable secondary surface preparation such as spot blast, sweeping or power tooling.

Performance Data

Properties	Test	Evaluation
	Method	
Pull off	ASTM	> 20kgf /cm ² (
Strength	D4541-02	2Mpa)
Salt Spray (5%	ASTM B117	1500hrs, passed
NaCl solution)		C5M, as system
Humidity (50	ASTM	1000hrs, passed
°C, 100% RH)	D1748	C5M, as system
10% NaOH	ISO 2812-1	168 hrs, passed
10% H ₂ SO ₄	ISO 2812-1	168 hours, passed
Mineral Spirit	ISO 2812-1	168 hours, passed
Fuel Oil	MIL-PRF-	21 days, passed
	4556F	

Safety Precaution and Clean-up

Safety: Read and follow the material safety

data sheet (MSDS) before use. Employ normal safety precaution. Put on necessary personal protection equipment when handle and use this

product.

Ventilation: when working in a confine workplace,

thorough air ventilation must be used 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.

Caution:

All electrical equipment and installations should be made and properly grounded. In area where explosion hazard exist, workmen should be used non-ferrous tools, conductive and non-sparkling shoes.

Clean-up:

Use Hana Paint epoxy thinner (Hana Thinner E) or epoxy solvent for cleaning. Observe safety precaution when use the solvents. In case of spillage, absorb and dispose the material and used container according to local required regulation or through licence 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.

Product data are subject to change without notice and automatically void two years from issue.

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.

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