

CODE: EP-276

PRODUCT NAME:

High Solids Epoxy Glass Flake

DESCRIPTION:

EP- 276 is a two component, high solids epoxy poly amino amide containing a high level of chemically resistant glass flake which imparts properties of excellent corrosion, abrasion and chemical resistance.

It is a suitable coating for the protection of steelwork in areas where high abrasion and corrosion resistance are required including splash zone areas on offshore platforms, jetties, deck bridges, chemical plants, pulps and paper mills, and water treatment

TECHNICAL DATA:

Binder	Epoxy resin
Pigment	Glass flake
Finish	Not applicable
Shade	Grey , white
Specific gravity after mixing	1.6 ± 0.1 Kg/Lit
Volume solid	90 ± 3 %
Flash point	27 °C
Typical dry film thickness	250-1000 Microns
Number of coat	Two or three
Mixing ratio by weight	Base : 100 parts Hardener : 20 parts
Substrate	Primed steel (EP-206-1)
Application	Airless, Roller ,Conventional spray, roller
Glass Flake Content	30-35 %
Glass Flake Size	500-1000 microns
Thinner / Cleaner	T-200
Weight of added Thinner	5-7 %
Theoretical spreading rate (at 300microns)	3 M ² /Lit
Packing	Base : 25 kg Hardener : 5 kg
Shelf life	12 Months

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Drying Time

Temp	Touch dry	Hard dry	Overcoating		Full cure
			Min	Max	
15°C	7 hours	18 hours	18 hours	5 days	14 days
25°C	5 hours	12 hours	12 hours	4 days	7 days
40°C	2 hours	7 hours	6 hours	1 days	4 days

Note: Drying times are dependent on applied film thickness; all data in this catalogue are reported at recommended DFT.

Note: This product will not cure adequately below 5 °C .For maximum performance ambient temperature should be above 10° C.

Pot life

Temp. of paint	15°C	25°C	40°C
Pot life	2 hours	60 minutes	40 minutes

SURFACE PREPARATION

The performance of this product will upon the degree surface preparation

All Surfaces to be coated should be clean, dry and free from contamination. Prior to Paint application all surfaces should be assessed and treated in accordance with ISO 8504:1992...

Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning

Abrasive Blast Cleaning

Abrasive blast to Sa2 ½ (ISO 8501-1:1988) or SSPC-SP-10.If oxidation has occurred between blasting and application of EP-276, the surface should be reblasted to the specified visual standard.

Surface defects revealed by the blast cleaning process, should be ground, filled or treated in the appropriate manner.

A sharp, angular surface profile of 75-100 microns is recommended.

Primed Steelwork

EP-276 can be applied over approved anti-corrosive primers. The primer surface should be dry and free from contamination.

Area s of breakdown,damage etc., should prepared to the specified standard (eg ,Sa 2 ½ (ISO 8501-1:1988)or SSPC-SP10 Abrasive Blasting, or SSPC-SP11,power tool cleaning ,and patch primed prior to the application of EP-276.

Weld seams and damaged areas should be blast cleaning to SA 2 ½ (ISO-8501-1:1988) or SSPC-SP-10.

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Application Method

Material is supplied in two containers as a unit. Always mix a complete unit in the proportion supplied. Once the unit has been mixed it must be used within the working Pot life specified.

1-Agitate part A with a power agitator.

2-Combined entire contents of curing agent (part B) With Base (Part A) and mix thoroughly with power agitator.

Application Equipments

Air less Spray	Tip range 0.036-0.043inch Total output pressure at spray tip not less than 211Bar (3000 psi)
Air Spray	Not recommended
Brush	Typically 150-200 mic can be achieved
Roller	Typically 150-200 mic can be achieved

Flush Equipment with recommended Cleaner before and after use.

ENVIRONMENTAL CONDITIONS:

- To prevent moisture condensation during application, surface temperature must be at least 3 °C above dew point.
- Never apply coatings under reverse environmental condition.
- In hot climate, material temperature should be 20 to 25 °C prior to mixing; otherwise pot life becomes very short.
- For satisfactory cure, air and surface temperature must be above 10 °C
- Paint shall not be applied when wind speed is in excess of 7 m/s

Air temperature	10 to 40 °C
Surface temperature	10 to 50 °C
Material temperature	10 to 30 °C
Relative humidity	Max 80 %

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HEALTH AND SAFETY:

This product is Flammable. Keep away from heat and open flame .Keep container closed .Use with adequate ventilation. Avoid prolonged and repeated contact with skin. If used in confined areas, observe the following precautions to prevent hazards of fire or explosion or damage to the health:

- 1-Circulate adequate fresh air continuously during application and drying.
- 2-Use fresh air masks and explosion proof equipment.
- 3- Prohibit all flames, sparks, welding and smoking.

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