

CODE: EP-214

PRODUCT NAME:

Solvent - Free Two Pack Coal Tar Epoxy Coating.

DESCRIPTION

EP-214 is a two component coal tar 100% solid content epoxy coating which display excellent corrosion and chemical resistance for tank lining, immersion and non-immersion service in crude oil, salt solutions and fresh or sea water with just a single coat.

EP-214 is industrial lining and coating for use varying from cold to hot climates on marine structures, pilling, ballast tanks, crude oil cargo, ships bottoms, burned pipes, oil production and refining plants, sewage treatment plants.

EP-214 is suitable for use over both steel and concrete. It normally does not require a primer or any additional topcoats but also can be applied over inorganic zinc silicate primer to serve as a tie coat between primer and topcoat.

TECHNICAL DATA:

Binder	Coal tar Epoxy resin
Pigment	Carbon black
Finish	Semi gloss
Shade	Dark brown, Black
Specific gravity after mixing	1.3±0.1 Kg/Lit
Substrate	Steel or concrete
Volume solid	100 %
Typical Dry film thickness	300-400 Microns per one coat
Number of coat	One
Flash point	75 °C
Mixing ratio by weight	Base : 100 parts Hardener : 16 parts
Application method	airless spray, brush, roller
Thinner/Cleaner	T-200
Theoretical spreading rate (300 mic)	3.3 M ² /Lit
Induction Time at < 25 °C	15 minutes
Packing	Base : 25 Kg Hardener : 4 Kg
Shelf life	12 Months



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Drying Time

Temp	Touch dry	Hard dry	Over coating		Full cure
			Min	Max	
15°C	9hours	32 hours	30 hours	-	12 days
25°C	6 hours	25 hours	24 hours	-	7 days
40°C	4 hours	20 hours	20 hours	-	3 days

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

Pot life

Temp. of paint	15°C	25°C	40°C
Pot life	120 minutes	90 minutes	30 minutes

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

For immersion service, EP-214 must be applied to surfaces blast cleaned to a minimum of SA2 ½(ISO 8501-1:1988) or SSPC-SP10. However, for atmospheric exposure EP-208 may be applied to surfaces prepared to a minimum of Sa 2 ½(ISO8501-1:1998) or SSPC-SP10.

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

A surface profile of 60-75 microns is recommended.

Primed surfaces

EP-214 can be applied over approved anti-corrosive primers. The primer surface should be dry and free from all contamination, and EP-214 must be applied within the overcoating intervals specified. Area of breakdown, damage, etc., should be prepared to the specified standard (eg. Sa2½(ISO 8501-1:1998), or SSPC-SP10, abrasive blasting, or SSPC-SP11, (hand/ power cleaning) and patch primed prior to the application of EP-214.

Concrete Surfaces

Concrete should be cured for a minimum of 28 days prior to coating. The moisture content of the concrete should be below 6%. All surfaces should be clean, dry and free from curing compounds, release agents, trowelling compounds, surface hardeners, efflorescence, grease, oil, dirt, old coatings and loose or disintegrating concrete. All poured and precast concrete must also sweep blasted (preferred) or acid etched to remove laitance. Apply a first coat of EP-214; thinned 15% with T-200 at approximate 100 mic dry film thickness to ensure good penetration.

Surface preparation shall not take place in following conditions:

- 1- At temperature below 5 °C.
- 2- When the relative humidity greater than 85%.
- 3- When the metal surface temperature is less than 3 °C above the dew point.
- 4- Out side day light hours on exterior locations

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 0.017-0.021 inch pressure at spray tip not less than 141 Bar (2000 psi)	Total output
Air Spray		Not Recommended
Brush		Typically 200 mic can be achieved.
Roller		Typically 200 mic can be achieved.

Flush Equipment with recommended Cleaner before and after use.



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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.
- Never apply coatings under reverse environmental condition

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

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.