

MEP403

Epoxy polyamide Coal-Tar

MEP403 is a polyamide cured coal-tar epoxy resin –build coating which provides with very hard wearing and highly resistance to seawater and it can be used in both immersion & buried surfaces. Not resistant to aromatic solvents such as benzene and xylene. White spirits, petrol (gasoline) and other aliphatic solvents may cause discoloration, but it has no negative influence on the system. Approved as a Corrosion resistant paint for water ballast tanks and fire retard coating

Recommended Use: For long-life protection of steel and other structural materials in severely corrosive environment e.g. on permanently submerged surfaces such as ship's bottoms. Ballast tanks hold, drilling rigs, sheet piling, crude oil tanks, Tidal and splash zones, and similar areas.

Physical Data

Finish Gloss
 Color Black, Dark Brown
 Substrate Steel or Concrete
 Components 2
 Solid Weight 77±2%
 Volume Solids 60±2%
 DFT Min. 150µ
 WFT 250µ
 TSR 4m²/lit/150µ
 Pot life (at 25°c) 8 hours
 Specific Gravity..... 1.5±0.05 kg/lit

Viscosity (at 25°c):.....90-100 KU
 (mixed product)

Thinner MS605

Shelf life 12 months

Drying times (at25°c)

Surface dry Max.4 hours

Thorough dry 48 hours

Dry to top coat Min. 24 hours

Full cure 7 Days

Mixing Ratio (by w)

Base 7 part

Cure 1 part

Recoating Interval:

Substrate Temp.	10 °c		20 °c		30 °c		40 °c	
	125	200	125	200	125	200	125	200
Minimum	24H	36H	12H	24H	6H	12H	4H	5H
Maximum	20D	20D	18D	18D	14D	14D	7D	7D

Note : H → hours, D → days

The best time for recoating and over coating is when the paint film is still slightly tacky.

This curing stage is reached after 6 hours at 30 °c under good ventilation. If maximum interval is exceeded. Roughening of the surface is necessary to ensure intercoat adhesion.

Heat Resistance : Continuous : 83 °c (Non-immersion service)
Non- Continuous : 117 °c (Non-immersion service)

Safety Precautions

Protect skin and eyes, and avoid prolonged breathing of solvent vapors. Use with adequate ventilation. Respiratory protection is recommended when applying this material in confined spaces or stagnant air. Since this product is flammable, keep it away from heat & flame. Ventilated gloves & mask & apply in well ventilated places. Store it in dry, cool & ventilated warehouses.

Application Instruction

Environmental Conditions

Air temp 10-50°c
Surface temp..... 10-60°c
Surface temperature must be at least 3°c above dew point.

Surface Preparation

Blast in accordance with the Swedish standard Sa 2½ or Steel Structures Painting Council SP-10 to achieve desired profile. Apply EPTR504 as soon as possible to prevent any contamination.

Equipment Conditions

Line nuzzle head pressure
4-6 bars for conventional spraying
160-200 bars for airless spraying

Nuzzle tip

1.2-2 mm for conventional spraying
0.019 – 0.027 inch for airless spraying

Application procedure

- 1.Flush equipment with recommended cleaner.
2. Stir base to an even consistency with a power mixer.
3. Add cure to base & continue Stirring up to uniformity. Induction time before use is 10 min.
Note: since the pot life is limited & shortened by high temperatures, do not mix more material than will be used.
4. For conventional spray thin only as needed for workability.
5. Stir during application to maintain uniformity of material.
6. Apply 250µ of the wet film thickness to reach 150µ dry film thickness.