HIGH BUILD EPOXY POLYAMIDE MIDCOAT REP-201

PRODUCT DESCRIPTION

REP-201 is a high solid, high build , two-component epoxy paint, which cures to a tough coating with very good barrier properties and good resistance to water, splashes of mineral oils, aliphatic hydrocarbons, although limited resistance to aromatic stronger solvents and to acids and oxidizing materials. It is available with conventional pigmentation or with mica iron oxide to provide enhanced over coating properties. This product has Norsok M501 approval in the marine coating system and used as a mid coat in the epoxy/polyurethane coating system in environments exposed to moderate to severe corrosion such as steel structures in offshore areas.

GENERAL PROPERTIES

Adhesion	Excellent to both primed & grit blasted and manually prepared steel surfaces.
Corrosion Resistance	Excellent on correctly prepared steel surfaces and primed surfaces.

PHYSICAL PROPERTIES

Colors/Shade No	RAL NO
Finish	Semi flat
Volume Solid	80±3%
Theoretical spreading rate	5.3 m^2 /liter 150 Mic. Dft.
Flash point	28 °C
Specific gravity	1.4±0.05 kg/liter
VOC	120 gr/liter
Shelf life	1 Year (25ºC) from time of production. Depending on storage condition, mechanical stirring may be necessary before usage. Storage environment should be ventilated and away from sunlight and high temperature (above 30 ° C).

MIXING

Mixing ratio (by weight)	Component A: 5	Component B: 1
Pot life	2 hours (20 °C)	

APPLICATION

Conditions	Do not apply when relative humidity exceeds 80% or when the surface to be coated is less than 3 °C above the dew point.	
Method	Airless spray	Brush (touch-up)
Thinner (max. vol.)	RTH-112 (10-20%)	RTH-112(10-15%)
Pump ratio minimum	1:68	
Tip size	0.025” – 0.029”	
Tip pressure	185 bar / 2700 Psi	
Cleaning of tools	RTH-112	
Indicated film thickness, dry	100-150 microns	
Indicated film thickness, wet	125-190 microns	

DRYING AND CURING TIMES

Condition	Drying and curing times are determined under controlled temperatures and relative humidity below 85 %, and at average of the DFT range for the product.
Surface temperature	23 °C
Dry to touch	3 hours
Hard dry	8-10 hours
Full curing	7 days
Recoat interval, min	12 hours
Recoat interval, max	5 days

APPLICATION AND CURING CONDITIONS

Primed surfaces

The surface must be completely clean and dry prior to application and its temperature must be at least 3°C above the dew point to avoid condensation. The surface should be stable, firm, dry and free of dust, sand, loose old paint, dirt, grease and oil. It is recommended to apply mid coat before exceeding maximum interval of primer. For zinc primed surfaces, ensure that the surface is clean, dry and free from any contamination and zinc salts before application.

Substrate	Surface preparation	
	Minimum	Recommended
Coated surfaces	Clean, dry and undamaged compatible coating (ISO 12944-4 6.1.4)	Clean, dry and undamaged compatible coating (ISO 12944-4 6.1.4)

REMARKS

Preceding Coat

Epoxy primers (REP-127), Zinc ethyl silicate primer (RHR-102), Sealer Epoxy (REP-301)

Subsequent Coat

Itself or Polyurethane Topcoat (RPU-307)

Film thickness

May be specified in another film thickness than indicated depending on purpose and area of use. This will alter spreading rate and may influence drying time and recoating intervals. Normal range is 100-200 microns.

Thinning

The type and amount of thinner depend on application conditions, application method, temperature, ventilation, and substrate. RTH-112 is recommended in general.

(i) A completely clean surface is mandatory to ensure inter coat adhesion, especially at long recoating intervals. Any dirt, oil, and grease have to be removed, e.g. with suitable detergent.

(ii) Salts to be removed by fresh water hosing. To check an adequate quality of the surface cleaning a test patch is recommended before actual recoating.

SAFETY

Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult RSI material safety data sheets and follow all local and national safety regulations. Harmful or fatal if swallowed; immediately seek medical assistance. Avoid inhalations of possible solvent vapors or paint mist, as well as paint contact with skin and eyes. Apply only on well-ventilated areas and ensure that adequate forced ventilation exists when applying paint in confined spaces or when the air is stagnant. Always take precautions against the risks of fire and explosions.