



RSI
INDUSTRIAL
PAINTS Inc.

SURFACE TOLERANT EPOXY REP-207

PRODUCT DESCRIPTION

REP-207 is a two component polyamine cured epoxy mastic coating. It is a surface tolerant, high solids, high build product. Specially designed for areas where optimum surface preparation is not possible or desired. Provides long lasting protection in environments with high corrosivity. Can be used as primer, mid coat, finish coat or as single coat system in atmospheric and immersed environments.

Primarily designed for maintenance and repair. Recommended for offshore environments, including splash zones, refineries, power plants, bridges, buildings, mining equipment and general structural steel.

Standard color availability Manufactured according RAL catalogue. When exposed to direct sun light in outdoor service become discolor and decrease of gloss.

GENERAL PROPERTIES

Adhesion	Excellent to primed surfaces and aged coating surfaces.
Corrosion Resistance	Excellent on correctly prepared surfaces.

PHYSICAL PROPERTIES

Colors/Shade No	RAL No
Finish	Gloss.
Volume Solid	70±3%
Theoretical spreading rate	7 m ² /liter 100 Mic. Dft.
Flash point	35 °C
Specific gravity	1.45±0.1 kg/liter
V.O.C.	Max. 259 gr/liter
Shelf life	1 Years (25°C) 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	90 min (20 °C)	

APPLICATION

Conditions	The temperature of the substrate should be minimum 10°C and at least 3°C above the dew point of the air, temperature and relative humidity measured in the vicinity of the substrate. Good ventilation is usually required in confined areas to ensure proper drying.	
Method	Airless sprays	Brush (touch-up): Recommended for stripe coating and small areas. Care must be taken to achieve the specified dry film thickness.
Thinner (max. vol.)	RTH-104 (10-30%)	RTH-104(5%)
Pump ratio minimum	45:1	
Tip size	0.021" – 0.025"	
Tip pressure	170 bar / 2500 Psi	
Cleaning of tools	RTH-104	
Indicated film thickness, dry	70-150 microns	
Indicated film thickness, wet	100-2150 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	4 hours
Hard dry	10 hours
Full curing	7 days
Recoat interval, min	10 hours
Recoat interval, max	7 days

APPLICATION AND CURING CONDITIONS

Condition To secure lasting adhesion to the subsequent product all surfaces shall be clean, dry and free from any contamination.

Substrate	Surface preparation	
	Minimum	Recommended
Carbon steel	St 2 (ISO 8501-1)	Sa 2½ (ISO 8501-1)
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

- 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 70-150 microns.
- Thinning** The type and amount of thinner depend on application conditions, application method, temperature, ventilation, and substrate. RTH-104 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.

RSI Co.

Product data sheet REP-207
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