PHENOLIC EPOXY PRIMER REP-114

PRODUCT DESCRIPTION

REP-114 is a semi-matt coating based on polyamine cured epoxy phenolic contain anti-corrosive pigments to provide maximum corrosive resistant. It is high temperature resistant and can be used in indoor environment as a primer coat. To provide corrosion protection in phenolic coating system for the internals of steel storage tanks and pipes containing a range of products, including crude oil, unleaded gasoline blends, MTBE, jet fuels, caustic solutions, potable water and a selected range of aromatic and aliphatic solvents. When exposed to direct sun light in outdoor service become discolor and decrease of gloss.

Standard color availability Manufactured according RAL catalogue.

GENERAL PROPERTIES

Adhesion	Excellent on correctly prepared steel surfaces.
Corrosion Resistance	Excellent on correctly prepared steel surfaces.

PHYSICAL PROPERTIES

Color	Gray/RAL No.
Finish	Semi Flat
Volume Solid	60±3%
Theoretical spreading rate	6 m^2 /liter at 100 Mic. Dft.
Flash point	28 °C
Specific gravity	1.6±0.05 kg/liter
V.O.C.	Max. 290 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: 7	Component B: 1
Pot life	45 min (25 °C)	

APPLICATION

Conditions	When the humidity is more than 85% the paint application should be avoided. The temperature should be above dew point to avoid condensation. The coating should not be exposed to oil, chemicals or mechanical stress until fully cured.	
Method	Airless spray	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%)	RTH-104(15-20%)
Pump ratio minimum	30:1	
Tip size	0.017”-0.021”	
Tip pressure	150 bar / 2100 Psi	
Cleaning of tools	RTH-104	
Indicated film thickness, dry	100-200 microns	
Indicated film thickness, wet	170-340 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
Surface drying	1 hour
Deep drying	12 hours
Complete curing	7 days
Recoat interval, min	10 hours
Recoat interval, max	7 days

APPLICATION CONDITIONS

Surface preparation

To secure lasting adhesion to the subsequent product all surfaces shall be clean, dry and free from any contamination. Optimum performance, including adhesion, corrosion protection, heat resistance and chemical resistance is achieved with recommended surface preparation.

Substrate	Surface preparation	
	Minimum	Recommended
Carbon steel	St 2 (ISO 8501-1)	Sa 2½ (ISO 8501-1)
Stainless steel	The surface shall be hand or machine abraded with non-metallic abrasives or bonded fibre machine or hand abrasive pads to impart a scratch pattern to the surface.	Abrasive blast cleaning to achieve a surface profile using non-metallic abrasive media which is suitable to achieve a sharp and angular surface profile
Aluminium	The surface shall be hand or machine abraded with non-metallic abrasives or bonded fibre machine or hand abrasive pads to impart a scratch pattern to the surface.	Abrasive blast cleaning to achieve a surface profile using non-metallic abrasive media which is suitable to achieve a sharp and angular surface profile
Galvanised steel	The surface shall be clean, dry and appear with a rough and dull profile.	Sweep blast-cleaning using nonmetallic abrasive leaving a clean, rough and even pattern.
Coated surfaces	Clean, dry and undamaged compatible coating	Clean, dry and undamaged compatible coating

REMARKS

Subsequent Coat	Epoxy phenolic Top Coat.
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-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

This product is intended for use of professional applicators. Applicators and operators shall use appropriate protection equipment when using this product. Use it in well ventilated environment and prevent direct contact with skin. Spillage on the skin should immediately be removed with suitable cleaner. Eye should be well flushed with water and medical cleaner.

RSI Co.

Product data sheet REP-114
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