



**RSI**  
INDUSTRIAL  
PAINTS Inc.

## POLYAMIDE COAL TAR EPOXY REP-307

### PRODUCT DESCRIPTION

**REP-307** is a high-build, modified, two-component coal tar epoxy paint, which cures to a coating with highly resistance to seawater, splashes of mineral oils, limited resistance to a number of aliphatic hydrocarbons, and good resistance to abrasion and impact. As a self-priming coatings for long term protection of steel and concrete in severely corrosive environment like emersion and burred structures and crude oil tank lining. This product manufactured according to IPS M-TP-190 standard and certified by National Iranian South Oil labratory.

**Standard color availability** Manufactured in black and brown colors.

### GENERAL PROPERTIES

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

### PHYSICAL PROPERTIES

<b>Colors/Shade No</b>	Black, Brown
<b>Finish</b>	Gloss-Semi Flat
<b>Volume Solid</b>	75±3%
<b>Theoretical spreading rate</b>	7.5 m <sup>2</sup> /liter 100 Mic. Dft.
<b>Flash point</b>	26 °C
<b>Specific gravity</b>	1.35±0.05 kg/liter
<b>V.O.C.</b>	Max. 210gr/liter
<b>Shelf life</b>	1 Year (25°C) from time of production. Depending on storage condition, mechanical stirring may be necessary before usage. rage environment should be ventilated and away from sunlight and high temperature (above 30 ° C)

### MIXING

<b>Mixing ratio (by weight)</b>	Component A: 4	Component B: 1
<b>Pot life</b>	2 hours (23 °C)	

### APPLICATION

<b>Conditions</b>	Do not apply when relative humidity exceeds 80% or when the surface to be coated is less than 3 °C above the dew point.	
<b>Method</b>	Airless sprays	Brush (touch-up)
<b>Thinner (max. vol.)</b>	RTH-104 (10-30%)	RTH-104(5%)
<b>Pump ratio minimum</b>	48:1	
<b>Tip size</b>	0.023" – 0.025"	
<b>Tip pressure</b>	200 bar / 2900 Psi	
<b>Cleaning of tools</b>	RTH-104	
<b>Indicated film thickness, dry</b>	100-300 micron (3×100 micron)	
<b>Indicated film thickness, wet</b>	135-400 micron (3×135 micron)	

### DRYING AND CURING TIMES

<b>Condition</b>	Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly.	
<b>Surface temperature</b>	23 °C	
<b>Dry to touch</b>	Max.8 hours	
<b>Hard dry</b>	24 hours	
<b>Full curing</b>	7 days	
<b>Recoat interval, min</b>	8 hours	
<b>Recoat interval, max</b>	2 days	

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## APPLICATION AND CURING CONDITIONS

<b>Surface preparation</b>	All surfaces should be clean, dry and free from contamination. The surface should be assessed and treated in accordance with ISO 8504.
<b>New steel</b>	Remove oil and grease etc. thoroughly with suitable detergent. Remove salts and other contaminants by high pressure fresh water cleaning. Abrasive blasting to near white metal Sa 2½ (ISO 8501-1:2007), Apply immediately after cleaning.
<b>Repair and maintenance</b>	Remove oil and grease etc. thoroughly with suitable detergent. Remove salts and other contaminants by high pressure fresh water cleaning. Clean damaged areas thoroughly by power tool cleaning (minor areas) or by abrasive blasting.
<b>Concrete</b>	Remove slip agent and other possible contaminants by emulsion washing followed by high pressure hosing with fresh water. Remove scum layer and loose matter to a hard, rough and uniform surface, preferably by abrasive blasting, possibly by other mechanical treatment or acid etching. Seal surface with suitable sealer, as per relevant painting specification.

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## REMARKS

<b>Film thickness</b>	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 100-300 microns.
<b>Thinning</b>	The type and amount of thinner depend on application conditions, application method, temperature, ventilation, and substrate. Thinner RTH-104 is recommended in general. <i>(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.</i> <i>(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.</i>

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## 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.

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## RSI Co.

Product data sheet REP-307

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