RSI COATING

PRODUCT DATA
RSI CT 53153

PRODUCT DESCRIPTION
TWO COMPONENT HIGH BUILD COAL TAR EPOXY 53153

(CURING AGENT 20080)

RSI COAL TAR 53153 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 nomber of aliphatic hydrocarbons, and good resistance to abrasion and impact.

RSI COAL TAR 53153 As a self-priming coatings for long term protection of steel and concrete in severly corrossive environment like emersion and buered structhers and crude oil tank linning.

Standard color availability Manufactured in black and brown colors.

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.
Temperature resistance	Dry: Maximum 90 ºC Wet: Maximum 45 ºC

PHYSICAL PROPERTIES:

Colors/Shade No	Black	Brown
Finish	SemiFlat	SemiFlat
Volume Solid	65%	70%
Theoretical spreading rate	6.5 m² /liter 100 Mic. Dft.	7 m² /liter 100 Mic. Dft.
Flash point	26 ºC	26 ºC
Specific gravity	1.45-1.55 kg/liter	1.35-1.45 kg/liter
V.O.C.	Max. 260gr/liter	Max. 250gr/liter
Shelf life	1 Years (25ºC / 77ºF) from time of production. Depending on storage condition, mechanical stirring may be necessary before usage.	

MIXING

Mixing ratio (by weight)	Component A 53153	Component B 20080
	100	25
Pot life	5 hours (20 ºC / 68 ºF)	

APPLICATION

Conditions	Do not apply when relative humidity exceeds 80% or when the surface to be coated is less than 3 ºC above the dew point.	
Method	Airless sprays	Brush (touch-up)
Thinner (max. vol.)	1051 (10-30%)	1051 (5%)
Spray setting		
Pump ratio minimum	48:1	
Tip size	0.023” – 0.025”	
Tip pressure	200 bar / 2900 Psi	
	(Airless spray data are indicative and subject to adjustment)	
Cleaning of tools	Thinner 1051	
Indicated film thickness, dry	65 microns	
Indicated film thickness, wet	100 microns	

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DRYING AND CURING TIMES AT (20 ºC)

Dry to touch	8 hour
Hard dry	24 hours
Full curing	7 days
Recoat interval, min	8 hours
Recoat interval, max	2 days , see REMARKS

SURFACE PREPARATION

New steel Steel surface should ideally be abrasive blast cleaning to minimum Sa 2½. 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.

Primed surfaces 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.

REMARKS

PRECEDING COAT: Coal tar epoxy 64153 or RSI 74253 ZP or RSI ZINC 74352.

SUBSEQUENT COAT: Noune.

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 100-150 microns/ 4-6 mils.

Thinning: The type and amount of thinner depend on application conditions, application method, temperature, ventilation, and substrate. Thinner 1051 is recommended in general.

Recoating and drying/curing time

Recoating intervals related to later conditions of temperature:
(125 micron/5 mils dry film thickness of RSI 73170)

Physical data versus temperatures:					
Surface temperature		5ºC/41ºF	10ºC/50ºF	20ºC/68ºF	30ºC/86º
Dry to touch approx.		24 hours	12 hours	8 hours	3 hours
Resist condensing humidity/ light showers after		4 days	2 days	24 hours	12 hours
Fully cured		20 days	14 days	7 days	5 days
Recoating interval with epoxy top coats	Min	30 hours	16 hours	8 hours	3 hours
	Max	7 days	4 days	2 days	36 hours

A completely clean surface is mandatory to ensure intercoat adhesion, especially at long Recoating intervals. Any dirt, oil, and grease have to be removed, e.g. with suitable detergent.
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.

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