

## PRODUCT DESCRIPTION

### TWO COMPONENT EPOXY PHENOLIC TOP COAT 54158

(CURING AGENT 20094)

RSI EPOXY TOP COAT 54158 is designed for use as a semi flat top coat base on epoxy phenolic and polyamine resins and inert pigments with an excellent barrier efficiency in moderate and indoor environment.

RSI EPOXY TOP COAT 54158 very good adhesion and high temperature, water and chemical resistance.

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

## GENERAL PROPERTIES

<b>Adhesion</b>	Excellent to primed surfaces.
<b>Corrosion Resistance</b>	Excellent on correctly primed surfaces.
<b>Temperature resistance</b>	Dry: Maximum 160 °C. At service temperatures above 100°C/212°F, slight discoloration may be expected.

## PHYSICAL PROPERTIES:

<b>Colors/Shade No</b>	Grey / Ral No
<b>Finish</b>	Semi flat.
<b>Volume Solid</b>	65%
<b>Theoretical spreading rate</b>	6.5 m <sup>2</sup> /liter 100Mic. Dft.
<b>Flash point</b>	30 °C
<b>Specific gravity</b>	1.35-1.45 kg/liter
<b>V.O.C.</b>	Max. 338 gr/liter
<b>Shelf life</b>	1 Years (25°C / 77°F) from time of production. Depending on storage condition, mechanical stirring may be necessary before usage.

## MIXING

<b>Mixing ratio (by weight)</b>	Component A 54158	Component B 20094
	100	17
<b>Pot life</b>	1 hours (20 °C/ 68 °F)	

## 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>	1051 (10-30%)	1051 (5%)
<b>Spray setting</b>		
<b>Pump ratio minimum</b>	30:1	
<b>Tip size</b>	0.017” – 0.019”	
<b>Tip pressure</b>	150 bar / 2200 Psi	
	(Airless spray data are indicative and subject to adjustment)	
<b>Cleaning of tools</b>	Thinner 1051	
<b>Indicated film thickness, dry</b>	65 microns	
<b>Indicated film thickness, wet</b>	100 microns	

## DRYING AND CURING TIMES AT (20 °C)

Dry to touch	Max.4 hour
Hard dry	24 hours
Full curing	7 days
Recoat interval, min	Min.12 hours
Recoat interval, max	7 days , see REMARKS

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## APPLICATION AND CURING CONDITIONS

**Primed surfaces** The surface must be completely clean and dry at the time of application, and its temperature must be above the dew point to avoid condensation. Minimum temperature for curing is 10°C/50°F. High humidity and/or condensation during application and the following 16 hours (20°C/68°F) may adversely affect the film formation. In confined spaces provide adequate ventilation during application and drying.

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## REMARKS

**PRECEDING COAT:** Epoxy Mid coat such as RSI 64158 and Epoxy Primer such as 74352.

**SUBSEQUENT COAT:** None.

**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 4-8 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:  
(100 micron/4 mils dry film thickness of RSI 54158)

Physical data versus temperatures:				
Surface temperature	5°C/41°F	10°C/50°F	20°C/68°F	30°C/86°F
Dry to touch approx.	16 hours	10 hours	6 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 and polyurethane top coats	Min	24 hours	16 hours	8 hours
	Max	15 days	12 days	7 days

**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.**

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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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Ranghay e Sanati e Iran Co.  
Product data sheet 54158

**RSI**  
**COATING**