

ANTI UV POLYURETHANE TOP COAT RPU-307

PRODUCT DESCRIPTION

RPU-307 is a two-component, gloss acrylic polyurethane coating with good gloss and color retention. RPU-307 As a finishing coat for protection of structural steel in severely corrosive atmospheric environment, where light fastness and gloss retention are required. This product has Norsok M501 approval in the marine coating system. Standard color availability Manufactured according RAL catalogue.

GENERAL PROPERTIES Adhesion Weather Resistance	Excellent to primed surfaces Excellent on correctly prepared and primed steel surfaces.					
PHYSICAL PROPERTIES						
Colors/Shade No	White / RAL No					
Finish	Gloss					
Volume Solid	50±3%					
Theoretical spreading rate	10 m2 /liter 50 Mic. Dft.					
Flash point	32 °C					
Specific gravity	1.48±0.05 kg/liter					
V.O.C.	Max. 380 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 $^{\circ}$ C)					
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MIXING						
Mixing ratio (by weight)	Component A: 5	Component B: 1				
Pot life	8 hours (20 °C)					
APPLICATION						
Conditions	Do not apply when relative humidity exceeds 80% or when the surface to be					
	coated is less than 3 °C above the dew point.					
Method	Airless sprays	Brush (touch-up)				
Thinner (max. vol.)	RTH-110 (10%)	RTH-110(5%)				
Pump ratio minimum	30:1					
Tip size	0.017" – 0.019"					
Tip pressure	150 bar / 2100 Psi					
	(Airless spray data are indicative and subject to adjustment)					
Cleaning of tools	RTH-110					
Indicated film thickness, dry	40-60 microns					
Indicated film thickness, wet	80-120 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	1hour				
Hard dry	4 hours				
Full curing	7 days				
Recoat interval, min	16 hours				
Recoat interval, max	None, see REMARKS				

APPLICATION AND CURING CONDITIONS

Primed surfaces	temperature mu temperature for c ice on the surface during application	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. At the freezing point and below, be aware of the risk of ice on the surface which will hinder the adhesion. High humidity and/or condensation during application and the following 16 hours may adversely affect the film formation. In confined spaces provide adequate ventilation during application and drying.									
EMARKS											
Preceding Coat	Epoxy Mid coat (R	Epoxy Mid coat (REP-201)									
Subsequent Coat	None.	None.									
Colors	containing atmosp	Certain lead-free red and yellow colors may discolor when exposed to chlorine- containing atmosphere. Leaded colors may become discolored when exposed to sulfide-containing atmosphere.									
Film thickness	area of use. This w	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 40-60 microns.									
Thinning		The type and amount of thinner depend on application conditions, application method, temperature, ventilation, and substrate. RTH-110 is recommended in general.									
Recoating and	Recoating intervals	s related	to later condi	tions of temp	erature:						
drying/curing time	(40 micron dry film thickness)										
	Physical data versus temperatures										
	Surface temperatu	Surface temperature		0°C	10°C	20°C	30°C				
	Dry to touch appro	Dry to touch approx.		36 hours	16 hours	6 hours	4 hours				
	Resist condensing humidity/ light showers after	-		3 days	32 hours	16 hours	12 hour				
	Fully cured	Fully cured		32 days	14 days	7 days	5 days				
	Recoating interval	Min	6 days	3 days	32 hours	16 hours	12 hour				
		Max	None	None	None	None	None				
	(i) A completely clean long recoating inter suitable detergent.						v at				

(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.

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