

POLYURETHANE TOPCOAT RPU-303

PRODUCT DESCRIPTION

RPU-303 is a two component acrylic polyurethane coating. It has a good gloss finish and very good levelling characteristics. It has a very good gloss retention. To be used as a topcoat for aggresive atmospheric exposure.

Recommended use as a finishing coat for protection of structural steel in severely corrosive atmospheric environment, where colour fastness and gloss retention are required.

GENERAL PROPERTIES

Adhesion Excellent to primed surfaces

Weather Resistance Excellent on correctly prepared and primed steel surfaces.

PHYSICAL PROPERTIES

Colors/Shade NoRAL NoFinishGlossVolume Solid50±3%

Theoretical spreading rate 10 m2 /liter 50 Mic. Dft.

Flash point 31 °C

Specific gravity 1.4±0.05 kg/liter **V.O.C.** Max. 440 gr/liter

Shelf life 1 Year (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 ° C).

MIXING

Mixing ratio (by weight) Component A: 5 Component B: 1

Pot life 6 hours (23 °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.

MethodAirless sprayAir sprayBrush (touch-up)Thinner (max. vol.)RTH-105 (10%)RTH-105 (10%)RTH-105(5%)

Pump ratio minimum 30:1

 Tip size
 0.017" - 0.019"

 Tip pressure
 150 bar / 2100 Psi

Cleaning of tools RTH-105
Indicated film thickness, dry 40-50 microns
Indicated film thickness, wet 80-100 microns

DRYING AND CURING TIMES

Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly. The figures given in the

table are typical with:

Condition * Good ventilation (Outdoor exposure or free circulation of air)

* Typical film thickness

* One coat on top of inert substrate

Surface temperature23 °CDry to touch1 hoursHard dry8 hoursFull curing7 days

Recoat interval, min 5 hours **Recoat interval, max** None

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. 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.

Substrate	Surface preparation	
	Minimum	Recommended
Coated surfaces	Clean, dry and	Clean, dry and
	undamaged	undamaged
	compatible coating	compatible coating

REMARKS

Preceding coat Epoxy mid coat such as REP-202 and Epoxy Primer such as REP-113.

Subsequent coat Non-

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 40-50 microns.

Thinning The type and amount of thinner depend on application conditions, application method,

temperature, ventilation, and substrate. RTH-105 is recommended in general.

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.

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.

Product data sheet RPU-303 July 2022







