

PRODUCT DATA SHEET

HDTHANE PU 590 GLOSSY



Description: HDTHANE PU 590 Glossy is a two-component, high gloss acrylic polyurethane enamel, cured with aliphatic isocyanate, with good gloss and Colour retention

Recommended use: As a glossy decorative finishing coat on a variety of substrates such as steel, aluminum, glassfibre, reinforced polyester, plywood, hardwood etc. in severely corrosive atmospheric environment. Minimum temperature for curing is -10°C

Service temperatures: Maximum, dry exposure only: 120°C/248°F

Physical constants:

Colours/shade Nos.:	Available in all shades
Finish:	High Glossy
Volume solids, %:	55 ± 2
Theoretical spreading rate:	14.9m ² /litre, 35 micron/1.4 mils
Flash point:	35°C [75°F]
Specific gravity:	1.3 kg/litre [10.4lbs/US gallon]
Surface-dry:	45 minutes at 20°C
Through-dry:	3 hours at 20°C
Fully Cured:	7 day(s) at 20°C
VOC content:	433 g/litre

Application details:

Version, mixed product	HDHANE 590 Glossy
Mixing ratio:	Base 590 : curing agent 590 7 : 1 by volume
Application method:	Airless spray /Air spray/Brush
Thinner (max.vol.):	HD PU Thin (5%) see REMARKS overleaf
Pot life:	3 hours at 30°C
Nozzle orifice:	0.017"-0.019"
Nozzle pressure:	75-100 bar [1087.5-1450 psi] (Airless spray data are indicative and subject to adjustment)
Indicated film thickness, dry:	35 - 50 micron/ 1.4 mils to 2 mils (see REMARKS overleaf)
Indicated film thickness, wet:	60 - 90 micron/ 3 mils
Overcoat interval, min:	According to specification
Overcoat interval, max:	According to specification

Safety: Handle with care. Use appropriate PPEs like safety shoes, goggles, gloves.

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Surface preparation:	New steel: When used as an intermediate or finishing coat please refer to the data sheet for the preceding primer. Repair and maintenance: 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 to St 3 (spot-repairs) or by abrasive blasting to min. Sa 2, preferably to Sa 2½. Surface preparation will improve the performance of the product. Feather edges to sound and intact areas. Dust off residues. Touch up to full film thickness. On pit-corroded surfaces, excessive amounts of salt residues may call for high pressure water jetting, wet abrasive blasting, alternatively dry abrasive blasting, high pressure fresh water hosting, drying, and finally dry abrasive blasting again.
Application conditions:	Apply only on a dry and clean surface with a temperature above the dew point to avoid condensation. Use only where application and curing can proceed at temperatures above: - 5°C/23°F, preferably above 0°C/32°F. The temperature of paint itself should be between 15°C/59°F and 30°C/86°F to secure proper application properties. Optimal application properties are obtained at paint temperatures of: 18- 22°C/64-72°F. In warmer climates, the paint should be stored in a cool place and the paint temperature should preferably be kept below 30°C/86°F. In confined spaces provide adequate ventilation during application and drying.
Preceding coat:	According to specification.
Subsequent coat:	According to specification.
Remarks:	
Service Temperature:	At service temperatures above 100°C/212°F, HDTHANEPU-590 topcoat will become more soft. Furthermore, discoloration may occur.
Thinning:	Thinner- HD PU is recommended if adjustment of application properties is needed.
Film thicknesses/thinning: (optional)	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 interval. Normal range dry is: 30-60 micron. Avoid application of excess film thickness.
Curing Agent:	The curing agent reacts with humidity, wherefore lid at all times should be closed tightly when not Used.

Note: HDTHANE 590 Glossy is for professional use only.

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