

Product Data

HEMUTHANE ENAMEL 58510



58510: BASE 58519: CURING AGENT 97760

Description: HEMUTHANE ENAMEL 58510 is a water-borne, two-component polyurethane enamel with excellent gloss and colour retention. Easy to clean.

Recommended use: As a durable topcoat in water-borne epoxy systems.

Service temperature: Maximum, dry exposure only: 120°C/248°F
see REMARKS overleaf

Certificates/Approvals:

subcategory j.

Availability:

Not included in Group Assortment. Availability subject to special agreement.

PHYSICAL CONSTANTS:

Shade nos/Colours: 10000*/ White

Finish: Glossy

Volume solids, %: 48 ± 1

Theoretical spreading rate: 12 m²/l [481.2 sq.ft./US gallon] - 40 micron/1.6 mils

Flash point: 188 °C [370.4 °F]

Specific gravity: 1.4 kg/litre [11.6 lbs/US gallon]

Surface-dry: 20 minute(s) 20°C/68°F

Through-dry: 1.5 hour(s) 20°C/68°F

Fully cured: 7 day(s) , 20°C/68°F

VOC content: 54 g/l [0.4 lbs/US gallon]

Shelf life: 1 year for BASE and 3 years (25°C/77°F) for CURING AGENT from time of production.

**other shades according to assortment list.*

The physical constants stated are nominal data according to the HEMPEL Group's approved formulas.

APPLICATION DETAILS:

Version, mixed product:

58510

Mixing ratio:

BASE 58519: CURING AGENT 97760

8.5:1.5 by volume

After careful mixing with mechanical stirrer, dilute 5-15% by volume with fresh water.

Application method:

Airless spray / Air mix

Thinner (max.vol.):

Fresh water (5-15%) / Fresh water (5-15%)

Pot life:

2 approx. hour(s) 20°C/68°F

Nozzle orifice:

0.011 - 0.015 "

Nozzle pressure:

150 bar [2175 psi] (minimum)

(Spray data is indicative and subject to adjustment)

Cleaning of tools:

Fresh water

see REMARKS overleaf

Indicated film thickness, dry:

40 micron [1.6 mils] see REMARKS overleaf

Indicated film thickness, wet:

75 micron [3 mils]

After dilution (15%): 100 micron/4 mils

Overcoat interval, min:

According to specification.

Overcoat interval, max:

According to specification.

Safety:

Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult HEMPEL Safety Data Sheets and follow all local or national safety regulations.

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APPLICATION CONDITIONS:	Use only where application can proceed at temperatures above: 10°C/50°F. Apply only on a dry and clean surface with a temperature above the dew point to avoid condensation. Relative humidity during application and drying: maximum 80%, preferably 40-60%. Good ventilation during application and drying is necessary. During drying it is of utmost importance that sufficient ventilation is covering all parts of the surfaces painted. Ventilation requirements to remove the water vapours liberated during application and drying are approx. 75 m³/litre of paint at 20°C/68°F. (Relative humidity of the air supply 40%)
PRECEDING COAT:	According to specification. Recommended systems are: HEMUDUR 18500.
SUBSEQUENT COAT:	None.
REMARKS:	
Weathering/service temperatures:	At service temperature above 100°C/212°F, slight discolouration may be expected.
Application(s):	For other gloss levels HEMUTHANE ENAMEL 58513 should be specified.
Film thicknesses/thinning:	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 overcoating interval. Normal range dry is: 30-60 micron/1.2-2.4 mils The product should not be applied in excessive film thickness (not above 80-90 micron/3.2-3.6 mils) as gloss will be reduced due to foam in the paint film.
Cleaning of tools:	Tools must be cleaned immediately with lukewarm soap water and/or fresh water followed by thoroughly rinsing to remove residues of detergent. Dried remains of paint may be removed with HEMPEL'S TOOL CLEANER 99610.
Storage Conditions:	Store at temperatures between 5-40°C/41-104°F. Shelf life is reduced at temperatures above 30°C/86°F. Do not expose to frost during storage and transport, or before the coating is dry.
Curing agent:	CURING AGENT 97760 : is sensitive to moisture. Store in a dry place and keep the can tightly closed until use. Open curing agent cans with caution as overpressure might exist.
Overcoating intervals:	Minimum overcoating interval for application to HEMUDUR 18500 is 3 hours (20°C/68°F). Alternatively HEMUDUR 18500 can be overcoated after 45 minutes flash off at 20°C/68°F and 1 hour heating to 40°C/104°F.
Note:	HEMUTHANE ENAMEL 58510 For professional use only.
ISSUED BY:	HEMPEL A/S

5851010000

This Product Data Sheet supersedes those previously issued.

For explanations, definitions and scope, see "Explanatory Notes" available on www.hempel.com. Data, specifications, directions and recommendations given in this data sheet represent only test results or experience obtained under controlled or specially defined circumstances. Their accuracy, completeness or appropriateness under the actual conditions of any intended use of the Products herein must be determined exclusively by the Buyer and/or User.

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