

PENGUARD TOPCOAT

PRODUCT DESCRIPTION : Penguard Topcoat is a two-pack epoxy topcoat based on a polyamide cured epoxy resin. This product is a part of a complete system which is certified not to spread surface flames.

RECOMMENDED USE : As finishing coat in epoxy systems. Also on concrete where epoxy paints are specified.

TECHNICAL INFORMATION :

Colour	:	According to colour card and MCI
Solids (% by volume)	:	50 ± 2
Flash point	:	25°C ± 2 (Setaflash)
Flexibility	:	Good
Gloss	:	Glossy
Gloss retention	:	Fair
Water resistance	:	Very good
Chemical resistance	:	Excellent
Solvent resistance	:	Excellent
Abrasion resistance	:	Very good

	Film thickness per coat in microns		Theoretical spreading rate m ² /l
	Dry	Wet	
Application range :	40 - 60	80 - 120	12.5 - 8.3
Typical :	50	100	10.0

APPLICATION DATA :

Application methods	:	Airless spray. Brush may be used for smaller areas.
Mixing ratio (by volume)	:	4 parts Comp. A (base) to be mixed thoroughly with 1 part Comp. B (curing agent)
Mixing	:	½ hour prior to use
Pot life (23°C)	:	8 hours. (Reduced at higher temp.)
Thinner/Cleaner	:	Jotun Thinner No. 17
Guiding data airless spray		
Pressure at nozzle	:	15 MPa (150 kp/cm ² 2100 psi)
Nozzle tip	:	0.46 - 0.58 mm (0.018-0.023")
Spray angle	:	40 - 80°
Filter	:	Check to ensure that filters are clean.

SURFACE PREPARATION : The substrate must be clean and dry. Surface contamination is to be removed by detergent and fresh water cleaning.

CONDITION DURING APPLICATION :

The temperature of the substrate should be minimum 10° C and minimum 3° C above the dew point of the air in the vicinity of the substrate. Good ventilation is necessary when the paint is used in confined spaces. When used over concrete/masonry the substrate should not contain more water than 4% (by weight). Penguard Topcoat should not be exposed to water, chemicals or mechanical stress until it is fully cured.

DRYING / CURING TIME :

The drying times are evaluated according to BS 3900 Part C2 and BS 3900 Part C3. 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:

- * Good ventilation
- * Recommended film thickness
- * One coat on top of inert substrate

Substrate temperature	Surface ¹ Dry	Hard ² Dry	Cured	Dry to recoat ³	
				Minimum	Maximum ⁴
10° C	2½ h	14 h	14 d	14 h	-
23° C	1½ h	6½h	7 d	7 h	-
35° C	½ h	4 h	3 d	3 h	-

- ¹ Measured according to BS 3900 Part C2
 - ² Measured according to BS 3900 Part C3
 - ³ Recommended data given for recoating with the same generic type of paint.
 - ⁴ The surface should be free from chalking and contamination prior to application. Best intercoat adhesion occurs when the subsequent coat is applied before the preceding coat is cured. If this time is exceeded it may be necessary to roughen the surface.
- The given data must be considered as guidelines only. The actual drying time/times before recoating may be shorter or longer, depending on existing coating, generic type, film thickness, system chosen, no. of coats, ventilation, temperature, requirement for early handling and mechanical strength etc. A complete system can be described on a system sheet, where all parameters and special conditions could be included.**

TYPICAL RECOMMENDED PAINT SYSTEM:

Penguard Primer	1 x 50 µm (Dry Film Thickness)
Penguard HB	1 x 100µm (Dry Film Thickness)
Penguard Topcoat	1 x 50 µm (Dry Film Thickness)

STORAGE AND PACKING :

- STORAGE :** The product must be stored in accordance with national regulations. Preferred storage conditions are to keep the containers in a dry space provided with adequate ventilation. The containers should be sealed tightly.
- PACKING CONTENT :** 16 l Comp. A (base) and 4 l Comp. B (curing agent)
4 l Comp. A (base) and 1 l Comp. B (curing agent)

HEALTH AND SAFETY :

Please observe the precautionary notices displayed on the container. Spray under well-ventilated conditions. Do not breathe or inhale mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

For detailed information on the health and safety hazards and precautions for use of this product, we refer to the Material Safety Data Sheet.

DISCLAIMER : *The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. However, as the product is often used under conditions beyond our control, we can not guarantee anything but the quality of the product itself. We reserve the right to change the given data without notice.*