PRODUCT
DATA SHEET

ROBUSTO PU UNDERCOAT

Vemar
YACHT COATINGS

Description

Two component polyurethane undercoat used as a base prior to any topcoat application above the waterline. Seals and fills to provide a smooth surface for topcoat application.

Suggested Uses

As an undercoat for all topcoat systems that creates an ideal surface highlighting their final gloss.

Product details

Available shades:	Grey white (Ral 9002), Stone grey (Ral 7040)
Specific gravity:	1,62 + 0,05 g/ml
Sheen level @ GU 60°:	Flat
Mixing ratio :	4:1 (A:B) by Volume 4:0,6 (A:B) by Weight
Thinning range:	Brush/Roller 0-10% Thinner 805 Conventional/Air spray 15-25% Thinner 800
Spray Viscosity:	DIN 4 @ 20°C : 30-40 sec
Typical thickness:	60 µm DFT / 110 µm WFT
Pot life (20°C):	4 hrs
Shelf life (20°C):	2 years (in airtight sealed containers)
Theoretical spreading rate (60µm DFT):	9 m^2/L
Volume solids:	55%
VOC (as supplied) according to ISO 11890-2:2013:	495 g/L
Packaging:	Part A: 1L Part B: 0.25L

Overcoating / Drying

Overcoated with	Surface Temperature							
	5°C		15°C		20°C		35°C	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
Robusto PU Undercoat	48 h	4 d	16 h	3 d	8 h	48 h	4 h	24 h
Topcoat	48 h	4 d	16 h	3 d	8 h	48 h	4 h	24 h

If max time is exceeded, sand with P180-220

Touch dry @ 20°C ISO 1517 - 1973	Through dry @ 20°C ISO 9117-1990	Fully cured @ 20°C
3 h	8 h	4 d

h=hours / d=days

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Surface preparation

Existing layer in good condition: Remove oil, grease (if any) with a suitable strong alkali detergent. Remove salt deposits, dust and/or other impurities by fresh water cleaning. Sand the surface to be coated with a grit size of 180-240 sandpaper to ensure adhesion. Remove the dust created by sanding.

GRP/Gelcoat: Remove oil, grease or mould release agent (if any) with a suitable alkali detergent. Remove salt deposits, dust and/or other impurities by fresh water cleaning. Sand the surface to be coated with a grit size of 180-200 (for GRP) or 280-320 (for Gelcoat) sandpaper to ensure adhesion. Remove the dust created by sanding. Make sure that the surface is completely dry prior to the application.

Carbon steel: Application of VEMASHIELD Primer is recommended.

Stainless steel/Aluminium: Application of VEMASHIELD Primer is recommended.

New Wood: Sand the surface to be coated with a grit size of 80-120 sandpaper to ensure adhesion. Remove the dust created by sanding. Make sure that the surface is dry prior to the application. Humidity must be less than 18% RH.
Improved surface preparation will improve adhesion and consequently the expected lifetime of the paint system.

Application guidelines

Temperature: The temperature of the surface to be coated should be at least 3°C above the dew point. Good painting practice must always be followed. Minimum application temperature is 5°C. Maximum application temperature is 35°C (For temperatures over 35°C special measures should be taken). Do not apply at a relative humidity (RH) exceeding 85%. Pls. consult your VEMAR representative.

The temperature of the product in the can must be between +10°C- +35°C. The ideal temperature, in order to obtain full product application characteristics, is +20°C.

Mixing: Mix carefully Part A with Part B according to the mixing ratio indicated until a Homogenous mixture is achieved. Use the product until the maximum indicated pot life is reached. In colder temperatures (<10°C) allow an induction time of 5 min prior applying the product.

Ventilation: Adequate ventilation should be ensured at all times. Special care should be taken for confined spaces during the application and drying process.

Method: Conventional spray / Brush / Roller / Airless spray. The applicator should choose the appropriate method taking into consideration the area to be covered the desired finish result, environmental issues, weather conditions, project's schedule, and available equipment. You may find below indicative adjustment according to the application method used. For more information on the appropriate equipment and guidance pls. contact your local VEMAR representative.

Method	Brush/Roller	Conventional/Air spray	Airless Spray
Thinning*	0-10% Thinner 805	15-25% Thinner 80	-
Tip orifice*	-	HVLP 1,8-2,0 mm	-
Pressure (@ tip)*	-	1,5-2,0 bar	-
Pump ratio*	-	-	-

**The above information is indicative and may be used as guidance only. Actual values may differ according to actual prevailing conditions.*

Recommended specifications

Pls. consult VEMAR's Technical guide or your local VEMAR representative.

Indicative thickness / coat

Application method	DFT* Range	WFT* Range
Conventional / Airless spray	60-80 µm	110-145 µm
Brush / Roller	40-60 µm	75-110 µm

*DFT= Dry film thickness WFT= Wet film thickness

The above data indicates the range where the product has been tested thus will provide the application characteristics and the performance as described. Application in thickness outside the indicative range may result in early failure/degradation of the coating system.

Tool cleaning

After use, clean equipment thoroughly with Thinner 800 or 820

Storage

Store in a cool and shaded area in temperatures +5°C up to +25°C. Storage in temperatures higher than indicated will reduce the shelf life of the product.

Health, safety & protection

Always use appropriate safety equipment for your face, eyes and skin. Make sure that the area where the product is being used is well ventilated. ALWAYS CONSULT THE MATERIAL SAFETY DATA SHEET BEFORE USE. Do not pour the containment or any remains in an aqueous environment or drainage. Do not dispose remains in municipal waste areas. Consult your local authorities for the disposal of any remains or empty cans.

Disclaimer