

Description

High gloss two component polyurethane clearcoat. Offers maximum level of UV protection against wood decay and weather-induced discoloration. May be used on bare wood or old painted wooden surfaces offering excellent leveling and mirror-like finish.

Suggested uses

- As a high gloss clearcoat for protection of wood surfaces.
- As an impregnating agent for wooden surfaces.

Product details

Available shades:	Transparent
Specific gravity:	0.99 ± 0.05 g/ml
Sheen level @ GU 60°:	Gloss
Mixing Ratio:	3:1 (A:B) by Volume 3:1 (A:B) by Weight
Thinning range:	10-20% Thinner 800
Pot life @ (20°C)	4 hrs
Indicative thickness/coat:	45 µm DFT / 70 µm WFT
Shelf life (20°C):	24 months (in airtight sealed containers)
Theoretical spreading rate (45 µm DFT):	10 m ² /L
Solids by Weight:	53%
VOC (as supplied) acc. to ISO 11890-2:2013:	<470 g/L
Packaging:	Part A: 0,525L / 1.875 L Part B: 0,175L / 0,625L

Overcoating / Drying

Overcoating with Regal Gloss	Surface Temperature			
	5°C	15°C	20°C	35°C
Overcoating without sanding (as impregnating)	6 hrs	5 hrs	4 hrs	3 hrs
Sandable	12 hrs	10 hrs	8 hrs	6 hrs
Touch dry @ 20°C ISO 1517 - 1973	Through dry @ 20°C ISO 9117-1990		Full cured @ 20°C	
3 hrs	8 hrs		14 d	

min=minutes / hrs=hours / d=days / mon=months

Surface preparation

In good condition:

Clean the surface with Thinner 800. Sand smooth with 280-320 grade paper. Remove sanding dust by brushing, dusting and wiping. If wiping with Thinner 800 then allow to dry completely before applying the first coat.

In poor condition:

Remove previous coatings by mechanical or chemical treatment. degrease the surface with thinner 800 and allow to dry. Sand smooth with P280-320 grade paper. Remove sanding dust by brushing, dusting and wiping. If wiping with Thinner 800 then allow to dry completely before applying the first coat.

Bare wood:

Clean surface with thinner 800 and allow to thoroughly dry. Sand with P100-220 grade paper. Remove sanding dust by brushing, dusting and wiping. If wiping with Thinner 800 then allow to dry completely before applying the first coat. Seal the surface with REGAL GLOSS (1-3 coats) thinned at least 20-30% using a roller or brush. For best results sand smooth between coats with 220 grade paper. You can apply 4-7 additional coats for a mirror-like finish. Dry sand along the grain between coats with P320 for a better finish.

Application guidelines

Temperature:

The temperature of the surface to be coated should be at least 5°C above the dew point. Good painting practice must always be followed. Minimum application temperature is 5°C. Maximum application temperature is 35°C. Do not apply at a relative humidity (RH) exceeding 80%. 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. Avoid painting in direct sunlight.

Mixing: Mix thoroughly until a Homogenous mixture is achieved.

Method:

Brush / Roller / Conventional 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 brush application always use a clean preferably natural bristle brush, to obtain the best results. For Roller application use the "roll & tip" method using a clean natural bristle brush to avoid air being entrapped into the layer. For more information on the appropriate equipment and guidance pls. contact your local VEMAR representative.

Moisture content:

A maximum acceptable wood moisture content of 15% should be kept prior to application.

	Brush/Roller	Conventional/Air spray
Thinning*	10-20% Thinner 800	10-20% Thinner 800
Tip orifice*	-	HVLP 1,3 mm
Pressure (@ tip)*	-	1,5-2,0 bar

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

Recommended specification

Bare Wood (as impregnating agent):

Layer	Product	Thinning	Dry Time per coat @ 20°C	Sanding between coats	Remarks
		Roller/Brush/ Conventional/ Air Spray			
1-3rd	Regal Gloss	20-30%	4 hrs	-	Allow third coat 24 hours to cure.
4-6th	Regal Gloss	10-20%	8 hrs	P220	-
7-10th	Regal Gloss	10-20%	8 hrs	P320	-

Depending on surface structure of the wood, more coats may be needed to fill the wood grain completely.

Varnished or sealed surfaces:

Layer	Product	Thinner	Drying time per coat @ 20°C	Sanding between coats	Remarks
		Roller/Brush/ Conventional/ Air Spray			
1-4th	Regal Gloss	10-20%	8 hrs	P220 - P320	-

The final finish result will depend on the application technique used. Always follow Vemar's recommendations regarding Nr. of Layers, dry film thickness, thinning & sanding to ensure the desired finish.

Indicative thickness / coat

Application method	DFT* Range	WFT* Range
Conventional spray	45-55 µm	70-90 µm
Brush / Roller	35-45 µm	60-70 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.

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

The information, data, guidance and any recommendations provided herein are based on Vemar's know-how, laboratory testing and obtained experience and is correct to the best of our knowledge. Users should contact their closest Vemar representative in order to receive guidance according to their special application needs not referred in this document. The performance of the product under the actual conditions of any intended use where Vemar will not have access to the various conditions affecting the use and application of the product, is not guaranteed and must be determined by the user. This document may be altered any time in the context of Vemar's continuous improvement and development. The supplied products and all technical assistance will be under the General condition of sales & delivery. By using this product as recommended in this document it is stated that the manufacturer and or seller, and the buyer and or user waives all claims involving, any liability, included but not limited to negligence, injury or direct or consequential losses or damages.