RELEST® Wind HS Topcoat

International

Acrylic Polyurethane

PRODUCT DESCRIPTION

Product Code: Base (RLA20x, I306-x1xx) / Hardener (RLA612, I385-1306)

RELEST Wind HS Topcoat is suitable for use outdoors and is characterised by its excellent rain erosion resistance.

INTENDED USES

Specifically designed for use on glass reinforced epoxy (GRE) composite for wind turbine blades. Suitable for use in both new construction and as a maintenance coating for the wind power industry.

PRACTICAL INFORMATION FOR RELEST WIND HS TOPCOAT

Colour	Wide range of colours available
Gloss Level	Matt
Volume Solids	55% ± 2% (depends on colour)
Typical Thickness	Two coats at 50-60 µm (2-2.4 mils) dry per coat equivalent to 90-110 µm (3.5-4.3 mils) wet. Typically applied in two coats by roller.
Theoretical Coverage	10 m^2/litre at 55 microns per coat and stated volume solids; corresponds to approx 130 g/m^2
Practical Coverage	Allow appropriate loss factors
Density	Mixed product density is approximately 1.3 g/cm^3 (depends on colour)
Method of Application	Airless Spray, Modified Airless Spray, Roller

Drying Time

			Overcoating Interval with recommended topcoats	
Temperature	**Touch Dry**	**Hard Dry**	*Minimum*	*Maximum*
18°C (64°F)	3 hours	7.5 hours	4.5 hours	24 hours
23°C (73°F)	2 hours	5 hours	3.5 hours	24 hours
35°C (95°F)	20 minutes	1 hour	2 hours	24 hours

- Touch Dry and Hard Dry are equivalent to TG1 and TG7 respectively, according to ISO 9117-5
- The figures quoted above have been determined at:
  18°C / 30% RH 23°C / 65% RH 35°C / 85% RH

REGULATORY DATA

Flash Point (Typical)	Part A 30°C (86°F); Part B 56°C (133°F)	
Product Weight	1.3 kg/l (10.8 lb/gal)	
VOC	VOC (Base)	347 g/kg EU Solvent Emission Directive (Council Directive 2010/75/EU)
	VOC (Hardener)	190 g/kg EU Solvent Emission Directive (Council Directive 2010/75/EU)
	VOC (Mixed)	320 g/kg EU Solvent Emission Directive (Council Directive 2010/75/EU)

Coating hazard marker GB 30981.2-S-Pb≤1000-NC Qualified for GB 30981.2-2025

See Product Characteristics section for further details

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SURFACE PREPARATION

Surface Cleaning

All surfaces to be coated should be clean, dry and free from contamination. Oil or grease should be removed prior to paint application. The surfaces should be cleaned thoroughly of all dust, using a vacuum or clean dry compressed air to blow while wiping with clean, oil free, and dry cloths.

Sanding Preparation: Composite, Gelcoats and Putties

Always thoroughly clean the surfaces before sanding. When sanding or grinding, work in areas with adequate ventilation, maintaining a continuous flow of fresh air. Inadequate sanding may result in poor adhesion of RELEST Wind HS Topcoat to the surface. However, excessive sanding or using too coarse grit can open pores in the surface or create a sanding scratch profile too deep to be filled by RELEST Wind HS Topcoat. A sanding paper of grit 120-180 is recommended on the primer and filler surfaces. Ensure any remaining contamination, such as dust or coating / filler particles is removed from the surface by suitable means, prior to application of RELEST Wind HS Topcoat.

APPLICATION

Mixing

Once the unit has been mixed it must be used within the working pot life specified.
(1) Agitate Base (Part A) with a power agitator.
(2) Agitate Curing Agent (Part B) with a power agitator.
(3) Combine entire contents of the Curing Agent (Part B) with the Base (Part A) and mix thoroughly with the power agitator.

Insufficient manual mixing may lead to coating film defects. Ensure that the devices are clean during the application and that no air is stirred in during the mixing process. It is absolutely necessary to transfer the mixed material to another container prior to use. The ideal application viscosity depends on the local conditions and must be adapted accordingly.

Mix Ratio

Using Part B RELEST Hardener PUR 1306 (I385-1306):
3.5 part(s) : 1 part(s) by volume
4.5 part(s) : 1 part(s) by weight

Working Pot Life

18°C (64°F)	23°C (73°F)	35°C (95°F)
60 minutes	45 minutes	15 minutes

- The figures quoted above have been determined at:
  18°C / 30% RH 23°C / 65% RH 35°C / 85% RH

Airless Spray

Recommended

Tip Range 0.28-0.38 mm (11-15 thou)
Total output fluid pressure at spray tip not less than 214 kg/cm² (3043 p.s.i.)

Roller

Recommended

Thinner

RELEST Thinner PUR 144 or International GTA056

Cleaner

RELEST Thinner PUR 144 or International GTA056

Work Stoppages

Thoroughly clean all equipment with RELEST Thinner PUR 144 or International GTA056. Once units of paint have been mixed they should not be resealed and it is advised that after prolonged stoppages work recommences with freshly mixed units.

Clean Up

Clean all equipment immediately after use with RELEST Thinner PUR 144 or International GTA056.

All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.

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PRODUCT CHARACTERISTICS

When applying RELEST Wind HS Topcoat by roller, it may be necessary to apply mulitple coats to achieve the total specified system dry film thickness.

Level of sheen and surface finish are dependent on application method. Avoid using a mixture of application methods whenever possible.

This product must only be thinned using the recommended thinners. The use of alternative thinners, particularly those containing alcohols, can severely affect the curing mechanism of the coating.

When applying RELEST Wind HS Topcoat in confined spaces ensure adequate ventilation.

Condensation occurring during or immediately after application may result in a matt finish and an inferior film.

Surface temperature must always be a minimum of 3°C (5°F) above dew point.

RELEST Wind HS Topcoat can be spray applied in one coat. Consult your local representative for further information.

Note: VOC values are typical and are provided for guidance purpose only. These may be subject to variation depending on factors such as differences in colour and normal manufacturing tolerances.

Low molecular weight reactive additives, which will form part of the film during normal ambient cure conditions, will also affect VOC values determined using EPA Method 24.

SYSTEMS COMPATIBILITY

For suitable primers/intermediates, consult your local representative.

ADDITIONAL INFORMATION

Further information regarding industry standards, terms and abbreviations used in this data sheet can be found in the following documents available at www.international-pc.com:

- Definitions & Abbreviations
- Surface Preparation
- Paint Application
- Theoretical & Practical Coverage

Individual copies of these information sections are available upon request.

SAFETY PRECAUTIONS

This product is intended for use only by professional applicators in industrial situations in accordance with the advice given on this sheet, the Safety Data Sheet and the container(s), and should not be used without reference to the Safety Data Sheet (SDS).

All work involving the application and use of this product should be performed in compliance with all relevant national, Health, Safety & Environmental standards and regulations.

In the event welding or flame cutting is performed on metal coated with this product, dust and fumes will be emitted which will require the use of appropriate personal protective equipment and adequate local exhaust ventilation.

If in doubt regarding the suitability of use of this product, consult your local representative for further advice.

Warning: Contains isocyanate. Wear air-fed hood for spray application.

PACK SIZE		
SHIPPING WEIGHT (TYPICAL)		
STORAGE	Shelf Life	18 months minimum at 25°C (77°F) in original, unopened containers. Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition. Protect from frost.

Important Note

The information in this data sheet is not intended to be exhaustive; any person using the product for any purpose other than that specifically recommended in this data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at their own risk. All advice given or statements made about the product (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability at all for the performance of the product or for (subject to the maximum extent permitted by law) any loss or damage arising out of the use of the product. We hereby disclaim any warranties or representations, express or implied, by operation of law or otherwise, including, without limitation, any implied warranty of merchantability or fitness for a particular purpose. All products supplied and technical advice given are subject to our Conditions of Sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is liable to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to check with their local representative that this data sheet is current prior to using the product.

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