

### RELEST® Wind LEP ETU Cartridge

Art.-Nr. I374-8735

#### Properties:

Type of binder	Polyurethane
Mixing ratio	According to weight: 100 : 81 According to Volume: 100 : 100
Hardener	RELEST® Hardener PUR 735
Viscosity (rotation methode)	Base: approx. 18,000 mPas
Colour shade	Approx. RAL 7035
Density (ISO 2811-1)	Base: approx. 1.38 g/cm <sup>3</sup>
Solid content	Weight: approx. 99.6 %
Gloss level	Gloss
Shore A hardness (24 h at +50°C)	--
VOC content	Approx. 14 g/l
Spreading rate (theoretical)	At a recommended dry film thickness of 400 µm on even surfaces: approx. 0.5 kg/m <sup>2</sup> corresponds to: approx. 2 m <sup>2</sup> /kg <small>Non-binding reference value since surfaces and their consumption rates vary. Carry out a test application according to DIN 53220 to assess the exact spreading rate.</small>

The technical data refer to +20°C and 65% relative air humidity.

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#### Characteristics and resistance:

RELEST® Wind LEP ETU, Art. No. I374-8735, is especially designed for protecting the leading edge of rotor blades of wind power plants from erosion damage caused by rain, sand, hail, dirt and other particles suspended in the air. In combination with the adhesion promoter RELEST® Wind Adhesion Promoter, Art. No. I367-0372, or RELEST® Plus Adhesion Promoter UNI, Art. No. I367-0080, a good bond with the substrate is usually obtained. Adhesion must be checked before using the product on problematic substrates.

The coating consists of an exceptionally light-fast and hard-wearing polyurethane elastomer.

#### Substrate preparation:

##### General:

The surface preparation is decisive for the durability of all coating systems.

Surfaces must be solid, clean, free of grease, dust and other soiling.

##### EP laminate:

EP Laminate surfaces must be thoroughly sanded in order to remove any adhering parting agent residues entirely.

Flat coats, gel coats and topcoats must also be sanded.

Use of the special adhesion promoter RELEST® Wind Adhesion Promoter, Art. No. I367-0372, or RELEST® Plus Adhesion Promoter UNI, Art. No. I367-0080, is recommended! Adhesion must be checked before using the product on problematic substrates, e.g. GRP.

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#### Application:

(The data are exemplary data only.)

<b>Application conditions</b>	+15°C min. up to +35°C max. air and object temperature at 85% max. rel. humidity. <b>Observe dew point.</b> The lower the ambient and the object temperature, the longer the drying time.	
<b>Workable life</b>	<b>Climate</b>	<b>Workable life</b>
	+20°C / 30% rel. humidity	approx. 3 min after applying the material to the surface to be coated
	+23°C / 60% rel. humidity	approx. 3 min after applying the material to the surface to be coated
	+35°C / 85% rel. humidity	approx. 2 min after applying the material to the surface to be coated
<b>Overcoating times</b>	<b>Climate</b>	<b>Overcoating times</b>
		Minimum: Maximum:
	+20°C, 30% air humidity: the coating must be touch dry	approx. 3 h
	+23°C, 60% air humidity: the coating must be touch dry	approx. 2 h
	+35°C, 85% air humidity: the coating must be touch dry	approx. 1 h
	When exceeding the maximum overcoating times the surface must be sanded (grit size 240 is recommended).	

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#### Application method:

RELEST® Wind LEP ETU is supplied in cartridges which can be used in combination with suitable dispensing devices and a suitable static mixer.

Application: in original consistency, using static mixer MF 08-32

1. When opening the cap the static mixer must be mounted onto the cartridge immediately.
2. Clamp the cartridge into the dispensing device and hold it such that the cartridge with the mounted static mixer points upward.
3. Push down to start the first stroke and slowly fill the static mixer.
4. Turn the dispensing device with the cartridge downwards and throw away the first 3-4 cm of discharged material.
5. Now start dispensing the material.
6. See also the work instruction.

#### Accessories:

XD04-0002-0010 manual dispensing device 400 ml  
XD04-0002-1010 pneumatic dispensing device 400 ml  
XD04-0002-2010 static mixer MF 08-32  
XD04-0002-3010 cartridge set with lip seal piston

The following accessories are recommended for the application:

XD04-0741-0010 Paint Roller Ultra "Flock"  
XD04-0500-1010 Storch "Perfect Finish" Brush

(The data are approx. data, the viscosity depends on the respective temperature.)

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#### Application:

Spraying	Compressed air	Airless	Curtain coating	Roller application
Spray pressure [bar]: Atomised air [bar]: Nozzle size [mm]:  Application viscosity:	not suitable	not suitable	not suitable	Apply by suitable brush or roller; if necessary, smooth over the surface by brush.  The material is supplied at application viscosity.

#### Drying times:

Drying times (ISO 9117) at 400 µm	Drying stage (TG) 1 (dust dry)	Drying stage (TG) 7 (resistant to mechanical stress)
+20°C/30% rel. humidity	approx. 5h	approx. 1d
+23°C/60% rel. humidity	approx. 4h	approx. 1d
+35°C/85% rel. humidity	approx. 2h	approx. 1d

Higher temperatures and larger air movement or exchange may accelerate the drying process, low temperatures or higher film thicknesses slow down the drying process.

#### Standard coating systems:

The respective coating system can be individually adapted to the local manufacturing processes and the desired quality standard. Please contact the responsible field staff!

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#### **Storage/Transport conditions:**

Store the material in firmly closed original containers. Please observe the information on the label.  
Seal open containers airtight and use up soon.  
Protect from frost, heat and humidity.

#### **Safety measures:**

The information and safety advice on the containers as well as the respective accident prevention regulations of the responsible trade associations are to be observed at all times when working with this product.  
For further information, please see the Safety Data Sheets.