

RELEST® Wind HS Topcoat

Art.-Nr. I306x1xx

Properties:

Type of binder	Acrylic polyurethane
Mixing ratio	According to weight: 4.5 : 1 According to volume: 3.5 : 1
Hardener	RELEST® Hardener PUR 1306
Viscosity 6 mm	Mixture: approx. 25 s
Density (ISO 2811-1)	Base: approx. 1.45 g/cm ³ (depending on colour shade) Hardener: approx. 1.12 g/cm ³ Mixture: approx. 1.42 g/cm ³ (depending on colour shade)
Solid content (mixture)	Weight: approx. 73% (depending on colour shade) Volume: approx. 56% (depending on colour shade) [theoretically calculated minimum]
Gloss level 60° measuring angle	<= 30 GU* *The coating's gloss level depends on the coating's film thickness, the substrate's roughness, the substrate's temperature, the application temperature, the drying stage and the air humidity during the application.
VOC content (mixture)	Approx. 400 g/l (depending on colour shade)
Spreading rate (mixture)	At a recommended dry film thickness of 120 µm on even surfaces in delivery form without application loss theoretical: approx. 300 g/m ² corresponds to: approx. 3.3 m ² /kg 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.

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

Characteristics and resistance:

RELEST® Wind HS Topcoat is suitable for use outdoors and characterised by its very good rain erosion resistance. The material is relatively insensitive to high film thicknesses and overlapping during the application.

Substrate preparation:

General:

The surface preparation is decisive for the durability of all coating systems. Substrates must be clean, dry, solid and free of dust, parting agents and other soiling.

RELEST® Wind HS Topcoat

Art.-Nr. I306x1xx

RELEST® Wind Gelcoat Spachtel:

Defects must be repaired and surfaced before applying the topcoat. Use the respective Handspachtel (filler for manual application) or Maschinenspachtel (filler for mechanical application) from our RELEST® Wind product line.

The surfaces must be sanded until matt before applying RELEST® Wind HS Topcoat. It is recommended to seal the sanded surfaces with a pore filler from our RELEST® Wind product line in order to obtain a uniform substrate.

RELEST® Wind Gelcoat:

After applying RELEST® Wind Gelcoat by spraying, allow for approx. 120 min. drying time before applying RELEST® Wind HS Topcoat.

If the drying time of RELEST® Wind Gelcoat exceeds 24 hours, the entire surface must be thoroughly sanded (fine sanding).

Refinishing of old and/or worn surfaces:

The surfaces must be thoroughly sanded before applying RELEST® Wind HS Topcoat.

Application:

The approx. data specified in the Table are exemplary data only.

(*) Due to the heat of reaction released (exothermicity) the workable life strongly depends on the mixed/remaining material quantity.

Application conditions	+15°C min. up to +35°C max. air and object temperature at 85% rel. air humidity max. Observe dew point. The lower the ambient and object temperature, the longer the drying time.	
Workable life	Climate	Workable life (*)
	+18°C / 30% rel. humidity	approx. 60 min
	+23°C / 65% rel. humidity	approx. 45 min
	+35°C / 85% rel. humidity	approx. 15 min
Overcoating times	Climate	Overcoating times
	+18°C / 30% rel. humidity	approx. 4.5 hours
	+23°C / 65% rel. humidity	approx. 3.5 hours
	+35°C / 85% rel. humidity	approx. 2.0 hours

Application method:

RELEST[®] Wind HS Topcoat

Art.-Nr. I306x1xx

We recommend to mix the individual components by means of a 2-comp. system (compulsory mixer). The base component and the hardener can also be mixed with each other at the specified mixing ratio by means of a high performance paddle mixer. 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. Do not close mixed containers airtight - pressure build-up!
The ideal application viscosity depends on the local conditions and must be adapted accordingly!

(All data are approximate values; the viscosity depends on the respective temperature.)

Spraying	Compressed air	Airless	Airmix	Roller application
Spray pressure [bar]:	approx. 3.5 – 4	approx. 210 - 300	approx. 200	-
Atomised air [bar]:	-	-	5	-
Nozzle size [mm]:	e.g. 1.5 - 2.5	e.g. 0.28 - 0.38	e.g. 0.28 - 0.33	-
Spray applications [cross coats]:	approx.1 – 2	approx.1 – 2	approx.1 – 2	-
Application viscosity (DIN flow cup):	approx. 25 - 35 s / 4 mm nozzle	approx. 20 s / 6 mm nozzle	approx. 20 s / 6 mm nozzle	approx. 20 s / 6 mm nozzle
Thinner [%]: Art. No.: I103-0144	5 - 10 max.	5 max.	5 max.	5 max.

Spray application: Provide for dry spraying air by means of an efficient water separator.

Drying times:

Drying times (ISO 9117) at	Drying stage (TG) 1 (dust dry)	Drying stage (TG) 7 (resistant to mechanical stress)
+18°C/30% rel. humidity	approx. 3 h	approx. 7.5 h
+23°C/65% rel. humidity	approx. 2 h	approx. 5 h
+35°C/85% rel. humidity	approx. 20 min	approx. 1 h

Storage/Transport conditions:

The material is storable for approx. 12 months from date of manufacture in firmly closed original containers. Seal open containers airtight and use up soon. Protect from frost, heat and humidity.

RELEST[®] Wind HS Topcoat

Art.-Nr. I306x1xx

Standard coating system:

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

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.