



Special chemistry for Glass

Protection coating for glass Vindico HP®

Area of application,
Intended purpose

VINDICO HP® is a solvent based SOL-GEL solution which contains inorganic components.
VINDICO HP® protects glass surfaces against negative chemical and mechanical influence (corrosion)
The VINDICO HP® protective layer reduces the expenditure for cleaning and maintenance of glass elements.
The layer is optically neutral and can therefore also in the final state up e.g. been used on antireflective glass.
Due to its high temperature stability the layer can be applied before „the toughening process “.
Depending of the applied quantity, layer thickness up to 100 nm can be achieved. The recommended layer thickness is around. 25nm
VINDICO HP® consists of 2 liquid components, which have to be mixed before the application. The application methods are preferably spray or roll-coat. The processing and curing are possible at ambient temperature conditions.
VINDICO HP® is optimized for glass surfaces but suited for enamel and ceramic as well.

Form of delivery

Component 1: HP activator
Component 2: HP basic solution

Bundle

HP activator: 1 litre bottle / 30 litre can / 200 litre barrel / 1000 litre
HP basic solution: 1 litre bottle / 30 litre can / 200 litre barrel / 1000 litre IBC

Shelf-life

HP basic solution: In closely locked original bundles approx. 24 months.
HP activator: In closely locked original bundles approx. 12 months
The storage at a temperature over 40°C and under 5°C is to be avoided. The bundles are to be protected against sun exposure!

Physical one
Characteristics
(application-finished
coating solution)

Density	(g/cm ³)	0,85
Flash point (°C):		< 21
pH		4-5
Form		liquid
Color		colourless

Consumption

10 – 30 ml per m (in relation of coating thickness and application method)

Application methods

Spray coating:
We recommend to use a HVLP (air vaporize) spray gun. The solution should be sprayed on the surface in a cross procedure
Roll coating:
It can be used a “Standard Rollcoater”
characteristics of the roll: 50-60 Shore, EPDM, smoothly. The coated parts are after 5 - 10 min. drying time at ambient temperature further to process and/or ready to pack.

Underground

The surface to be coated must be dry and absolute free of fatty, dust and other impurities (corrosion).

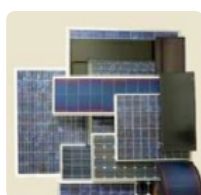
Processing

The coating solution is to prepare before the application by mixing the two components (basic solution + activator).
Please notice:
The Activator solution is to dump in the Basic solution
Do not inverse procedure !
This mixed coating solution is within 12 hours applicable !!



Processing references	Do not use at ambient temperatures below+ 4° C and above +50° C Do not use at extreme high air humidity (e. g. fog) Do not use in rainy weather (outside application)
Curing time	24 hours at ambient temperature 5 min at 200°C
Drying time	10 min at ambient temperature 2 min at 80 °C
Mixing ratio	50 : 50 e.g. 1000g HP coating solution = 500g HP basic solution + 500g HP activator
Mixing duration	approx.10 min mixing + 3 h rest period
Safety references	During the processing is to be provided for a sufficient ventilation! By spraying application an efficient exhaust is necessary Limit value MAK: 500 ppm 960 mg/m ³ Absolute prohibition of smoking! Easily inflammatory! Eye contact avoid Wash off hands after end of work with soap and water well!
Ecology	The product is biologically degradable. No negative ecological effects Not water-endangering VOC g/kg: ~ 806
Transport	HP basic solution: Class: 3 UN - No. : 1170 packaging group: II Customs tariff number: 29310095 Dispatch designation: ETHANOL SOLUTION Packing instructions: passenger: 305 Cargo: 307 Classification: F1 HP activator: Class: 3 UN - No. : 1170 packaging group: II Customs tariff number: 29310095 Dispatch designation: ETHANOL SOLUTION Packing instructions: passenger: 305 Cargo: 307 Classification: F1
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This text is to advise you. The data are based on detailed investigations, however from it no commitment can be derived. Since we are endeavoured around a constant advancement of our products, it is advisable to consider the date of this data sheet and inquire if necessary whether in the meantime characteristics were changed. The data are without guarantee.



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