

Dynasylan® HYDROSIL 2926

Aqueous oligomeric hydroxy-functional silane hydrolysate

Technical data

Properties and test methods	Value	Unit	Method
Color	< 20	mg Pt-Co/l	ISO 6271
Content of solids	30 - 34	wt.-%	DIN-38409-H1-1
Density (20°C)	1.08 - 1.10	g/cm ³	DIN 51757
Flash point	> = 95	°C	DIN EN 22719
pH (20°C)	2.5 - 3	-	DIN 19268
Viscosity (20°C)	< 10	mPa·s	DIN 53015

Registrations

Dynasylan® HYDROSIL 2926

EINECS/ELINCS (EU):	Yes
AICS (Australia):	Yes
DSL/NDSL (Canada):	Yes
PICCS (Philippines):	Yes
TSCA (USA):	Yes
IECS (P.R. China):	Yes
ENCS (Japan):	*
ECL (South Korea):	Yes
REACH (Europe)	Exempted
* available on request	

Dynasylan® HYDROSIL 2926 provides the producer of high-performance laminate materials with an adhesion promoter between inorganic materials (glass, minerals and metals) and organic polymers (thermosets, thermoplastics and elastomers). Dynasylan® HYDROSIL 2926 is a colorless liquid.

Safety and handling

Before considering the use of Dynasylan® products please read its Safety Data Sheet (SDS) thoroughly for safety and toxicological data as well as for information on proper transportation, storage and use. The Safety Data Sheet is available after registration on our website www.dynasylan.com or upon request from your local representative, customer service or from Evonik Operations GmbH, Product Safety Department, E-MAIL sds-hu@evonik.com.

Packaging, storage and shelf life

Dynasylan® HYDROSIL 2926 is supplied in 25 kg PE can, 200 kg drums and 1.000 kg IBC.

It is recommended to store Dynasylan® HYDROSIL 2926 above 4°C.

Dynasylan® HYDROSIL 2926 has a shelf life of minimum 12 months from delivery in an originally sealed can, drum or IBC.

Reactivity

Dynasylan® HYDROSIL 2926 is an organosilicon compound based on water as the solvent and contains no volatile organic constituents.

Properties and applications

- Surface treatment of minerals
- Glass fibre reinforcement
- Priming of glass and metal
- Surface modifier for organic materials
- Additive for water-borne polymer systems

Depending on the area of application a concentration of active compound of approx. 0.5-5% may be employed. As a consequence, Dynasylan® HYDROSIL 2926 can be simply diluted with distilled water. A 5 wt.-% aqueous solution at pH 4-9 has a pot life of about 1 year.

The following advantages are obtained over conventional organofunctional silanes:

Increased product and processing reliability:

- no liberation of flammable organic constituents
- flash point > = 95 °C

Process flexibility:

- processing possible at elevated temperatures and in the vicinity of ignition sources or static charge

Applicational advantage:

- in polymer systems based on water as the solvent

Environmental protection:

- hydrolysis does not result in liberation of volatile organic substances

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