

# Dynasylan® HYDROSIL 2776

## Aqueous oligomeric aminoalkylfunctional silane hydrolysate

### Technical data

Properties and test methods	Value	Unit	Method
Amine content as NH <sub>2</sub>	4.2 - 4.7	wt.-%	SAA 1078
Color	< = 300	mg Pt-Co/l	ISO 6271
Content of solids	23 - 27	wt.-%	DIN 38409-H1-1
Density (20°C)	1.0 - 1.1	g/cm <sup>3</sup>	DIN 51757
Flash point	> = 95	°C	DIN EN 22719
pH (20°C)	10 - 11.4	-	DIN 19268
Viscosity (20°C)	< 10	mPa's	DIN 53015

### Registrations

#### Dynasylan® HYDROSIL 2776

EINECS/ELINCS (EU):	Yes
AICS (Australia):	No
DSL/NDSL (Canada):	*
PICCS (Philippines):	Yes
TSCA (USA):	Yes
IECSC (P.R. China):	*
ENCS (Japan):	*
ECL (South Korea):	No
REACH (Europe)	Exempted
* = available on request	

Dynasylan® HYDROSIL 2776 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 2776 is a clear or slightly yellowish 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](http://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](mailto:sds-hu@evonik.com).

### Packaging, storage and shelf life

Dynasylan® HYDROSIL 2776 is supplied in 25 kg PE cans and 211 kg drums.

It is recommended to store Dynasylan® HYDROSIL 2776 above 4°C.

Dynasylan® HYDROSIL 2776 has a shelf life of minimum 12 months from delivery in an originally sealed can or drum.

## Properties and applications

Dynasylan® HYDROSIL 2776 is an organosilicon compound based on water as the solvent and contains no volatile organic constituents.

### 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 2776 can be simply diluted with distilled water.

The following advantages are obtained over conventional organofunctional silanes:

### Increased product and processing reliability:

- no liberation of flammable organic constituents
- flash point  $\geq 95^{\circ}\text{C}$

### 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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