

Product Information

Dynasylan® SILBOND® HT-33

Ethyl polysilicate hybrid binder

PRODUCT DESCRIPTION

Dynasylan® SILBOND® HT-33 is a milky-white, low-viscosity pre-hydrolyzed ethyl polysilicate hybrid binder that contains a mixture of silica derived from TEOS and other components. The silica content ranges from 32.7% to 34.0% (as SiO_2).

Property	Unit	Value
Appearance		Colorless
Density (20 °C)	g/cm³	~1.028-1.045
lash Point, min.	°C	18.9
/iscosity 25 °C)	mPa∙s	~4.0-12.0

The data represents typical values (no product specification)

TYPICAL APPLICATIONS

This material is formulated for use in two component inorganic zinc-rich primers. Advantages include improved toughness and excellent performance in high-temperature applications. The improved toughness is a direct result of the higher SiO_2 content.

Product Composition		
Product Composition	Unit	Value
ilicon Dioxide (SiO ₂) Content	wt%	32.7-34.0

BENEFITS & ADVANTAGES

This material is formulated for use in two component inorganic zinc-rich primers. Advantages include improved toughness and excellent performance in high-temperature applications. The improved toughness is a direct result of the higher SiO_2 content.

HANDLING & PROCESSING

Dynasylan® SILBOND® HT-33 can be used, as delivered, to make inorganic zinc-rich primers for the marine and industrial coatings industries.

The degree of hydrolysis and acidity have been optimized for the required reactivity and sufficient storage stability.

The hydrolysis and condensation has been started during the production of the binder. Through a shift in the pH this process is accelerated. This shift is achieved by addition of fillers, pigments, additive, or through the evaporation of solvent or exposure to atmospheric moisture. The resulting silicic acid gel cures rapidly at ambient temperatures in air. The process of curing can be accelerated through the addition of alkali catalysts.

PACKAGING

Dynasylan® SILBOND® HT-33 could be available in pails, drums, totes and tanker quantities.

Please ask for further details.

SHELF LIFE

In unopened container Dynasylan® SILBOND® HT-33 has a shelf life of min. 6 months from date of manufacture.

HAZARDOUS SUBSTANCE

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 on our website https://www.evonik.com/en/company/businesslines/se.html or upon request from your local representative, customer service or from Evonik Operations GmbH, Product Safety Department, E-MAIL sds-hu@evonik.com.

Registration Listings	
Registry	Status
Australia (AIIC)	Yes



Registry	Status
anada (DSL)	Yes
China (IECSC)	Yes
U (REACH)	Yes
apan (ENCS)	Yes
South Korea (KECL)	Yes

Registration Listings		
Registry	Status	
New Zealand (NZIoC)	Yes	
Philippines (PICCS)	Yes	
Taiwan (TCSI)	Yes	
USA (TSCA)	Yes	

Disclaimer

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