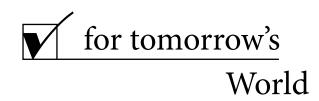


for tomorrow's

Technology

# SilStab™

Stabilized Potassium Silicate Solutions



## **Stabilized Potassium Silicate Solutions**

Renders, Plaster and Primers
Outdoor/Indoor Paints
Coatings of Construction- and Insulation Boards

## **General**

The SilStab™ products are stabilized Potassium Silicate Solutions with a high Silica content. Due to the additional stabilization these SilStab™ products can easily be combined with different kind of pigments and fillers without coagulation or gelling of the paint. Combined with the hyper dispersant ADDAPT® ADDISP™ 600N, dispersing properties can be further improved to minimize sedimentation and syneresis.

These SilStab™ Silicates give hardened surfaces, better silicified with low efflorence. SilStab™ grades like SilStab™ HL+ and SilStab™ DC3 are further hydrophobic modified to even further improve the high water resistance.

The SilStab™ products can also easily be combined with polymer dispersions like Acrylate-, Styrene/Acrylic-, Styrene/Butadiene- or VA/VeoVa dispersions.

# The SilStab™ grades

Product name	% K-Silicate	Density	Viscosity* g/cm³	Hydrophobic Modified
SilStab L50	7 - 9	Av.: 1.195	< 50 m.Pa.s	Х
SilStab L100	22 - 25	Av.: 1.225	< 50 m.Pa.s	X
SilStab HL+	23 - 26	Av.: 1.405	< 50 m.Pa.s	V
SilStab DC3	22 - 25	Av.: 1.325	< 50 m.Pa.s	V
* 20 °C (Brookfield #2 @ 30rpm)				

## **Applications**

SilStab™ products can be used in a wide variety of applications for coatings in the building industry without or in combination with an organic binder. Depending on the SilStab™ grade, Organo-Silicate paints can be formulated according to German Standard VOB/C DIN 18.363, §2.4.6.

# **Application Properties**

Silicifies Surfaces – High Durability	Excellent penetration in porous substrates	
High water vapour permeability	(High) water resistance	
Gives Low Dirt Pick-up	Non-Flammable	
Hard en scratch resistant surfaces	Non-Yellowing / UV Resistant	
Affinity with mineral surfaces	Contain no nutrients for algae and fungi	

# Use in Renders (Putz), Paints and Primers

## **Dispersions**

When used in combination with polymer emulsions or dispersions like Pure Acrylic, Styrene/Acrylic and Va/VeoVa, care should be taken that these binders are based on alkaline and saponification resistant polymers with low MFFT!

#### **Extenders/Fillers and Adhesives**

Inorganic materials are preferred and should not contain free multi-valent cations. Reactive fillers should be avoided as they will influence viscosity and might cause gelation.

Inert additives that are alkaline and saponification resistant are suitable for all stabilized SilStab™ containing formulations.

The Universal Additive like ADDAPT® BioWet™ P 77 or P 80 and Pigment Dispersant like ADDAPT® ADDISP™ 600N are excellently suitable to be used in combination with SilStab™ products in the formulation of Renders (Putz) and Paint (see separate brochures). Guide formulations are available upon request.

#### **Primer Formulations**

SilStab™ products are solutions and not colloidal systems. They therefore have excellent and rapid penetration in dry porous substrates. Due to their penetration power and consequently the process called "silicification", a silicate matrix is formed with, depending on the concentration, intumescent properties.

### CONTACT INFORMATION

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