

ADDAPT
Chemicals BV



for tomorrow's
Technology

SilStab™

Stabilized Potassium Silicate Solutions



for tomorrow's

World

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 efflorescence. 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/cm ³	Hydrophobic Modified
SilStab L50	7 - 9	Av.: 1.195	< 50 m.Pa.s	X
SilStab L100	22 - 25	Av.: 1.225	< 50 m.Pa.s	X
SilStab HL+	23 - 26	Av.: 1.405	< 50 m.Pa.s	√
SilStab DC3	22 - 25	Av.: 1.325	< 50 m.Pa.s	√

* 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

ADDAPT Chemicals B.V.

Speltdijk 1
5704 RJ Helmond
The Netherlands

Tel.: +31 (0)492 59 75 75
Fax: +31 (0)492 55 29 55
E-mail: info@addapt-chem.com
<http://www.addapt-chem.com>

Liability

All recommendations for the use of our products, whether given by us in writing, oral, or to be implied from the results of tests carried out by us, are based on the current state of our knowledge. Under no circumstances shall Seller be liable for incidental, consequential or indirect damage for alleged negligence, breach of warranty, strict liability, tort or contract arising in connection with product(s). Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has/have not been tested for, and is/are therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin or blood is intended, or for uses for which implantations within the human body is intended.

