



TECHNICAL DATA SHEET

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sto



StoSil In

Matt dispersion silicate interior paint with very good application properties.
Wet abrasion classification 3 according to EN 13 300.

Material description

Type of material

Dispersion silicate interior paint.
Solvent and plasticizer free.
Minimum emission.

The water-based material contains an anorganic binder, fillers and additives.

Binder

Potash waterglass, copolymer (organic additives).

Fillers

Carbonates, silicates.

Additives

Wetting agent, anti-foaming agent, thickeners.

Pigments: Titanium dioxide (rutile).

Thinner

Diluting Agent: Clean water.

Uses

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For coating walls and ceilings of mineral based substrates, gypsum plaster, wood-chip wallpapers glassfibre wall coverings, old matt coatings etc.

Areas of use

For interior use.

Restrictions

Do not use on damp substrates, pure gypsum substrates or on strongly set dispersion paint coatings.

Uses not clearly described in this Technical Data Sheet should only take place after consultation with Sto Ltd.

Application

Substrate

The substrate should be load-bearing, clean and dry.
Critical substrates must be tested for suitability (create a test surface).

Substrate preparation

Remove loose paint and plaster coatings.

Non load-bearing, weak suction substrates have to be primed. (See table 1 for details).

New plaster should be left to harden for at least 14 days.

Coating procedure

Undercoat (if necessary)
In most cases StoPrim Silicate, mixed with clean water in up to 1:1 ratio depending on the absorbency of the substrate. (See table 1)

Intermediate coat

StoSil In, diluted by approx. 5 - 10 % with clean water.

Top coat

StoSil In, diluted by up to 5 % with clean water.

Material preparation

The material is - after mixing thoroughly - ready for use.

If necessary, dilute the material slightly with clean water to achieve working consistency. Can be diluted by up to 10 % with clean water.

Application

By brush or roller.

Machine application

The material can be spray applied (e.g. with the Inotec Inomat).

See table 2 for details. (More details on request).

Drying time

StoSil In dries purely physically by water evaporation

Product characteristics

- Solvent and plasticizer free. Minimum emission. TÜV examined.
- Extremely high resistance to staining.
- Highly covering.
- Wash resistant and resistant to wear.
- Matt finish according to EN 13 300.

The drying time depends on the temperature and the relative humidity.

At 20 °C and 65 % relative humidity the product will be touch dry in approx. 3 - 4 hours and can be overcoated after approx. 6 - 8 hours.

Drying times will be prolonged by low temperatures and/or high humidity.

A chemical reaction (silicification) with mineral substrates is possible.

Consumption

Approx. 0,12 - 0,14 l/m² per painting, depending on the substrate and the method of application.

Application temperature

Air and substrate temperature should not be less than + 5 °C (until the material has completely set).

Protective measures

When applying, protect skin and eyes. Cover glass, tiles, ceramics, artificial and natural stone, lacquers and metals. Wash off paint splashes immediately with water.

Cleaning of tools

Immediately after use with water.

Repairs

StoSil In can be overcoated with StoSil In, Sto Silicate paints and Sto Dispersion paints.

Delivery

Product code and name

0206 StoSil In, white
0619 StoSil In, tinted

Table 1: Substrate preparation
Before painting with StoSil In

Substrate	Treatment	Priming coat *)
Concrete	Clean and prime	StoPrim Silicate
Gypsum plaster	Clean and prime	StoPrim Silicate
Gypsum plaster board new	Clean and prime	StoPrim Plex W or StoPrim Concentrat
Gypsum plaster board yellowed	Clean and prime	StoPrim Isol
Lime cement plaster	Clean and prime	StoPrim Silicate
Silicate pain / plaster	Clean and prime	StoPrim Silicate
Wood chip wallpaper	Clean and prime	-

*) Primers should always be diluted appropriately for the substrate. The primer must not dry to a glossy finish.

Table 2: Airless spray values

	Value	Unit
Spray nozzle size	0,018 - 0,021	[inch]
	0,475 - 0,530	[mm]
Spray angle	40 - 60	[°]
Pressure	150 - 200	bar
Dilution	up to 10 %	

Packaging

Pail (PE), 15 l net.
StoSilo large containers
(not available in all countries)

Colours

White. Can be supplied tinted to the colours of the StoColor System.
Due to the chemical setting process Sto Ltd. can guarantee neither the exactness of colour nor freedom of staining.

Tonable

Can be mixed up to 1 %
StoTint Aqua.

Algae and fungus prevention.

Can be manufactured with additional bactericidal, fungicidal and algicidal additives. When ordering, please attach the term "film preservation". (additional price).

Please note that while this will prolong the prevention of algae and fungus growth, the effects are not guaranteed to last indefinitely.

Storage and transport

Marking

In accordance with European Union guidelines and national regulations:

VbF: -
GefStoffV: -
GGVS/ADR: -
UN-Nr.: -

GISBAU-Code: M-SK01
VVS-Code: 1610
BAGT-Nr.: 619004

Storage

Store in frost free conditions.

Storage life

In unopened original containers (pails), product can be stored for a minimum of 12 months; in StoSilo large containers, at least 6 months.

(Relevant data: refer to packaging).

Transport

No special protective measures or hazardous goods markings are necessary.

Environment and health

Health

Application of StoSil In poses no known or suspected health risk when correct procedures are followed.

The bound material likewise poses no known or suspected health risk in the light of present knowledge.

Risk warnings (R-phrases)

None.

Safety precautions (S-phrases)

None.

Measures in case of accident

In case of accident: Absorb with liquid binding material and dispose in accordance with local official regulations.

Disposal

Dried or set material can be disposed of with normal household rubbish. Old, non-set material should be mixed with cement, left to dry and then disposed of.

Waste key in accordance with the European Waste Catalog: 08 and/or 08 01 and/or 08 01 12

Waste key in accordance with ÖNORM S 2100/2101: 55510.

For further information on handling, storage and disposal of the product, please refer to the current EU Material Safety Data Sheet, available for professional users. (Relevant data).

Physical data

Physical data

See table 3.

Certificates and test reports

- TÜV Süddeutschland Bau und Betrieb GmbH, München. Evaluation of emissions and toxicological and environmentally relevant contents. (19.09.2002)

More test reports o.ae. on request.

General information

Liability for defects caused through construction settlement or movement, misuse, mishandling, improper storage, improper application, improper combination with Sto products or those from third parties, or failure to follow Sto's specifications or application procedures, will not be accepted under any circumstances.

For all contracts - whether made verbally or in writing - Sto Ltd. general conditions of sale apply.

Validity

This Technical Data Sheet is valid in the United Kingdom and Ireland.

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Table 3: Physical data

	Tested to	Value/Test result	Unit
Density in supplied form	DIN 53 217	1,50	[kg/dm ³]
Non volatile part (solid material)		58	[M-%]
pH-value		11 - 12	[1]
Lightness value	DIN 53 778	90	[%]
Brightness value	CIE	80	[%]
Degree of gloss	DIN EN 1062-1	mattt	
Scrub resistance	DIN 53 778		
Wet abrasion classification	DIN EN 13 300	Class 3	

With the indication of the characteristic values it concerns average values. Due to the use of natural raw materials in our products the actual value can deviate slightly, without impairment of the product suitability.

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