



TECHNICAL DATA SHEET

30114

WDVSMART

SILIKATPUTZ

AREA OF APPLICATION

WDVSmart SilikatPutz is a dispersion-silicate-based external render for exterior walls. The product contains an encapsulated film preservative to protect the coated surface against algae and fungal growth.

PROPERTIES

- Matt, mineral surface
- Water-repellent
- Very high water vapour and carbon dioxide permeability
- High whiteness
- Durable
- Less than 6 % organic components
- Weather-resistant
- Encapsulated film protection
- With genuine, natural marble grain

COLOUR SHADE: white (limited tintability)

CONTAINER: 25 kg

COVERAGE:

Version	Consumption
K 1.5	2.4 kg/m ²
K 2.0	3.0 kg/m ²
K 3.0	4.3 kg/m ²

TECHNICAL DATA:

Density	Approx. 1.6 – 1.8 g/cm ³
Water vapour diffusion-equivalent air layer thickness μ	30 – 60 V1 high
Diffusion-equivalent air layer thickness	0.9 – 0.1 m

AREA OF APPLICATION

GENERAL RULES:

The substrate must be prepared and the work performed in accordance with the state of the art. All coatings and

preliminary work should always be geared towards the project and the requirements it is exposed to. Please also observe the current BFS data sheets, published by the German Federal Committee for Paints and the Protection of Objects, as appropriate for the type of use and the substrate: BFS data sheets 9 (for coatings on external render), 13 (for coatings on brick fair-faced masonry), 14 (for coatings on fibre cement boards and asbestos-cement boards), 19 (for cracks in external render (coating and reinforcement)), 19.1 (for cracks in rendered and non-rendered masonry), 20.1 (for the assessment of substrates for rendering and plastering), 21 (technical directives for the application of external wall insulation systems). Also see German construction contract procedures (VOB), Part C, DIN 18363, Paragraph 3 "Painting and coating work".

Treating/removing layers of paint by sanding, welding, burning off, etc. can cause harmful dust and/or vapours. Only carry out work in well-ventilated areas. Use appropriate breathing apparatus/protective equipment, if necessary. All substrates must be clean, dry, load-bearing, and free from release agents. Substrates must be checked in terms of their load-bearing capacity and suitability for subsequent coatings. If necessary, create a test surface and test the adhesion.

SUBSTRATE

Suitable for use on mineral and organic substrates. Not for surfaces with standing water, horizontal plaster/render surfaces, or plaster/render surfaces with slight inclination. Substrates that are vulnerable to efflorescence, as well as plastic and timber, are not suitable.

SUBSTRATE PREPARATION:

The substrate must be even, dry, clean, and load-bearing, as well as free from efflorescence and release layers; non-load bearing coatings and loose parts must be removed. A priming coat might be necessary depending on the structure of the substrate. SÜDWEST WDVSmart Putzgrund is necessary as an intermediate coat and should be adapted to the colour shade of the finishing plaster/render. Do not exceed the light reflectance value of 20 % when using external wall insulation systems as a substrate.

HIGHLY ABSORBENT SUBSTRATES:

Optionally prime with SÜDWEST InnenGrund, Hydrogrund, or SÜDWEST ThixGrund (depending on the area of use) and treat the substrate accordingly.

MOULD-INFESTED SURFACES:

Pre-treat with SÜDWEST Schimmel-Fresser or SÜDWEST Fungan, read the associated technical documentation.

SURFACES EXPOSED TO ALGAE ATTACK:

Pre-treat with SÜDWEST Schimmel-Fresser or SÜDWEST Fungan, read the associated technical documentation.

SURFACES STAINED WITH NICOTINE, WATER, SOOT, OR GREASE:

Wash surfaces with a mixture of water and a household cleaning agent with degreasing properties, allow to dry thoroughly, and brush. Apply a stain-blocking priming coat with SÜDWEST Isolierfarbe L (depending on the area of use); a second priming coat might be necessary depending on the condition of the surface.

LOAD-BEARING EXISTING COATINGS:

Check coatings for their suitability and load-bearing capacity. Remove any coatings which are not load-bearing. The substrate must be cleaned where necessary.

SURFACE AREAS WITH LIGNIN OR OTHER WOOD CONSTITUENTS:

Apply a stain-blocking priming coat with SÜDWEST Isolierfarbe L (depending on the area of use); a second priming coat might be necessary depending on the condition of the surface.

APPLICATION

MATERIAL PREPARATION:

Dilute with up to 5 % water to achieve the required application consistency; this amount can vary depending on the batch. To avoid bubble formation on the surface, agitating equipment for materials in paste-form must be used at low/medium rotational speed for stirring. Also to avoid bubble formation, the substrate must be dry and free from dew moisture, rainwater, etc. The material might thicken again after drying.

TEXTURED RENDER:

Apply WDVSmart SilikatPutz evenly with a stainless steel trowel and trowel off to grain size, then smooth immediately with a plastic trowel. Texture the stippled render uniformly. To avoid differences in texture, always use the same type of tool on a single project. To avoid different "handprints", texturing should be carried out by the same person or a team of people should take it in turns to rework the same surface areas.

FLOAT-FINISH/FINE TEXTURED RENDER:

For coatings in external wall insulation systems, the layer thickness of the reinforced base coat should be approx. 3.5 mm. This is usually achieved by applying an additional levelling coat to the reinforced base coat or an additional plaster/render coat in K 1.5 stippled plaster texture 1.5 mm.

APPLICATION TEMPERATURE:

Do not apply at a project or air temperature of less than +5°C and do not leave to dry at a project or air temperature of less than +5°C. Scaffolding platforms and shadows might need to be taken into account in direct solar radiation, as they can lead to variations in drying behaviour and subsequently to changes in colour shade and texture. Highest substrate and air temperature: +30°C.

APPLICATION INSTRUCTIONS:

Ensure compliance with applicable legislation and directives (e.g. building regulations, EneV, etc.), BFS data sheet no. 21, information from the Fachverband

Wärmedämmverbundsystem in Germany, and the relevant EWIS system approval, as well as the technical approval for the anchors. Other directives must also be followed, e.g. BFS data sheet no. 19 and the following, as well as other applicable arrangements for plastering work.

DRYING

At +20°C temperature (air and substrate), 65 % relative air humidity. Overcoatable after 24 hours at the earliest; drying times will be longer at lower temperatures and higher humidities. Through-drying of the product takes at least 14 days at +20°C and 65 % rel. humidity; it can take longer if the temperature and humidity fluctuate. Take suitable protective measures if the weather is unfavourable during drying (e.g. rain, etc.).

SPECIAL INFORMATION

As WDVSmart SilikatPutz is a product designed for film protection, it cannot be used in interiors.

COLOUR STABILITY:

The surface of coatings can change over time due to weather conditions, moisture, UV irradiation, and deposits. This can result in a change in colour. This is a dynamic process that is influenced differently by the climatic conditions themselves and the exposure. The current national regulations, data sheets, etc. apply; please also refer to BFS data sheet no. 26.

BLACK GRAIN:

The sands used in WDVSmart finishing plasters/renderers are natural products that may be visible as slightly darker sand or structural grains in isolated cases. This is a minimal visual impairment, not a quality defect. It reflects the underlying natural character of the product and is evidence of the natural properties of the raw materials used.

EXTENDER MATERIAL BREAKDOWN:

When coated surfaces are exposed to mechanical stress, it is possible that for darker, intense colour shades the areas of impact change to a lighter colour. This is due to the natural extenders used. This does not impair the product quality or its functionality.

COLOUR CONSISTENCY:

Due to the chemical and/or physical curing processes involved in different weathering and building conditions, it is not possible to guarantee colour consistency and freedom from stains, particularly in the case of:

- Uneven absorption of the substrate
- Differences in the substrate humidity of the surface
- Strong variations in substrate alkalinity/ingredients
- Direct solar radiation with sharply delineated shadows forming on the freshly applied coating

APPROVALS

Z-33.41-955 WDVSmart EPS bonded
Z-33.43-956 WDVSmart bonded + anchor-fixed

STORAGE

Close opened containers so that they are airtight after use. Store tightly sealed in cool, dry, and frost-free conditions. Protect from direct sunlight.

TOOL CLEANING:

Clean with water after use. Collect the cleaning / rinsing water and dispose of it properly.

DISPOSAL

Only recycle empty containers. Only return empty containers for recycling. Dispose of containers with residues at the responsible hazardous waste centre. Dispose of dried paint brushes and rollers with residual waste. Do not dispose of paint or rinse painting tools in sinks or drains.

COMPOSITION

Polymer dispersion, titanium dioxide, mineral extenders, silicate extenders, potassium silicate, fibre extenders, water, aliphatics, stabilisers, additives

GENERAL SAFETY ADVICE

Good ventilation must be ensured while paints and varnishes are being applied and are drying. Keep away from food, drink, and animal feed. Avoid contact with skin and eyes. Do not breathe in dust during sanding work. Keep out of reach of children. Do not allow to enter ground water, bodies of water, or the sewer system in undiluted or large quantities. Further information and the

current SDS are available at www.suedwest.de

TECHNICAL CONSULTATION

Our sales representatives will be happy to answer any questions which have not been covered by this Technical Data Sheet. Our technical customer service team at the factory is also available to answer any detailed queries you may have (06324/709-0).

DISCLAIMER

We are committed to taking the utmost care. However, we are only able to provide general information based on our own experiences, developments, and investigations, and these naturally cannot take the individual conditions of a project (substrates, weather conditions, other conditions) into account. The applicator is therefore obliged to maintain their knowledge in accordance with the state of the art and act responsibly. Our employees are available to provide specific advice and will be happy to do so. We accept no responsibility for the use

of the product in combination with other products. The data provided in this Technical Data Sheet does not constitute binding information or liability.

Furthermore, suspension or the appearance of a subsequent edition will invalidate this Technical Data Sheet; information about this can be accessed at any time on our website: www.suedwest.de.

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