

TECHNICAL DATA SHEET

30020
LOTUSAN®



AREA OF APPLICATION

SÜDWEST Lotusan® with Lotus-Effect®, keeps facades dry and beautiful-looking – even on sides of a building that are particularly exposed to weathering.

PROPERTIES

- Extremely resistant to wetting with water immediately after coating is dry
- Significantly reduced adhesion of dirt particles; therefore self-cleaning in the rain
- Increased natural protection against algae and fungal attack due to deprivation of essential sustenance (water and dirt deposits)
- Ideal protection against moisture and soiling, even on sides of a building that are particularly exposed to weathering
- Good permeability for water vapour and CO₂
- Outstanding weathering and chalking resistance
- UV-stable
- Easy application without seams
- Mineral, particularly matt surface

COLOUR SHADE: 9110 white

ALL-COLOR FACTORY TINTING:
more colour shades available.

CONTAINER: 5 l, 12.5 l

COVERAGE: 0.17–0.20 l/m² per coating depending on substrate.

GLOSS LEVEL: matt

DENSITY: approx. 1.50 g/cm³

USE

GENERAL RULES:

The substrate must be prepared and the coating 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. 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

SÜDWEST Lotusan® provides enhanced protection for all modern and historic facades. All-purpose application on the following substrates:

- External renders in mortar groups P1c, P1I, and P1II.
- Synthetic resin, silicone, and silicate renders.
- Fair-faced masonry made from calcium silicate masonry units and bricks.
- Existing paint coats applied using lime, cement, silicate, emulsion, and silicone paints.

SUBSTRATE PREPARATION:

NEW EXTERNAL RENDER IN MORTAR GROUP P1c, P1I, OR P1II IN ACCORDANCE WITH DIN 18550:

Application after external render is sufficiently hardened and dry (rule of thumb: 1 day of drying time per mm of render thickness). If necessary, prime with SÜDWEST HydroGrund or SÜDWEST ThixGrund.

EXISTING EXTERNAL RENDER WITH LOAD-BEARING SURFACE, RIGID STRUCTURE, AND SUFFICIENT ADHESION TO SUBSTRATE:

Remove soiling. Touch up minor areas of damage using a suitable facade filler. If necessary, prime with SÜDWEST HydroGrund or SÜDWEST ThixGrund.

FAIR-FACED MASONRY MADE FROM CALCIUM SILICATE MASONRY UNITS AND BRICKS, WITH CLOSED JOINTS:

Prime with SÜDWEST HydroGrund or SÜDWEST ThixGrund. Remove efflorescence completely using dry brushing; do not clean with water afterwards. Then prime with SÜDWEST TiefenGrund LH.

EXISTING SUBSTRATE MADE FROM LIME, CEMENT, AND SILICATE PAINT COATINGS:

Completely remove any loose, chalking, and poorly adhering layers by means of mechanical sanding, brushing, etc., and dust off. Level out minor areas of damage using a suitable facade filler. If necessary, prime with SÜDWEST HydroGrund or SÜDWEST ThixGrund.

EXISTING EMULSION COATINGS OR SYNTHETIC RESIN RENDERS:

Thoroughly remove any non-load bearing emulsion paints and synthetic resin renders by means of stripping and jet

washing, and clean the area. Remove loose layers. Touch up defects using a suitable facade filler.

If necessary, prime with SÜDWEST HydroGrund or SÜDWEST ThixGrund.

SURFACES AFFECTED BY MICROBIAL ATTACK:

Clean surfaces based on the type, composition, and soiling (e.g. by means of jet washing). After drying, apply SÜDWEST Fungan® in accordance with the Technical Data Sheet.

ELASTIC COVERING LAYERS/COATINGS:

If weathered and brittle enough, clean and then paint over. If elasticity is still present, strip and jet wash.

CRUMBLING/CHALKING SURFACES:

Brush carefully and consolidate with SÜDWEST HydroGrund or SÜDWEST ThixGrund. Clean surfaces with heavy soiling.

EXTERNAL WALL INSULATION SYSTEM WITH POLYSTYRENE INSULATION BOARDS:

Use only the solvent-free priming coat SÜDWEST HydroGrund or SÜDWEST ThixGrund for priming.

APPLICATION

Apply SÜDWEST Lotusan® (diluted with water up to max. 5 %) using a brush, roller, or airless spraying. After drying, apply an even, full-coverage coating of SÜDWEST Lotusan® (diluted with water up to max. 5 %) a second time.

AIRLESS SPRAYING:

Nozzle: 4/17 – 4/25

Pressure: 100–150 bar.

Please also pay attention to the equipment manufacturer's recommendations when using in a spray process.

APPLICATION TEMPERATURE:

Do not apply in direct sunlight, if there is a risk of frost, or at temperatures below +5 °C. If weather conditions are favourable, it is possible to apply both coats in a day.

THINNING/TOOL CLEANING:

Dilute up to max. 5 % with water. Clean tools with water immediately after use.

BUILDING PHYSICAL DATA

Water vapour diffusion-equivalent air layer thickness as per ISO 7783-2:

μ = approx. 50

Water vapour diffusion-equivalent air layer thickness: 0.01 m (class V1, high) as per DIN ISO 7783-2

Water permeability rate: $w < 0.05$ [kg/(m²*h0.5)] (class W3, low) as per DIN EN 1062-3

Layer thickness: 220 μ m as per DIN EN 1062-1

COLOUR RETENTION IN ACCORDANCE WITH BFS DATA SHEET NO. 26

Class: A, group: 1

SPECIAL INFORMATION

Lotusan® can be painted over with SÜDWEST Lotusan® or conventional facade paints. Painting over it with conventional facade paints will remove the Lotus-Effect®. There is an increased risk of algae and fungal attack on facade surfaces that are exposed to increased moisture due to their special project conditions (e.g. thermal insulation, open bodies of water, and/or trees and shrubs in the vicinity of the project, etc.). In such cases, we recommend using Lotusan® Therm. For surfaces that are affected by microbial attack before overcoating, we recommend cleaning and applying SÜDWEST Fungan® or Lotusan® Therm. They have a preventive and retarding effect. Permanent protection against algae and/or fungal attack cannot be guaranteed. Products with active ingredients must be applied in sufficient layer thickness. This can only be achieved by applying two coats. High alkaline influences and/or delayed film formation due to weather conditions reduce the effect of film protection. In addition, BFS data sheet no. 9, section 6.1 must be observed.

EC DIRECTIVE 2004/42/CE

The Lotusan® product falls below the maximum VOC value of product category C (40 g/l) and is therefore VOC-compliant.

VDL (GERMAN PAINT AND PRINTING INK ASSOCIATION) DECLARATION

Polymer dispersion, titanium dioxide, silicate extenders, organic extenders, water, glycol ether, alcohols, hydrophobic

agents, thickeners, anti-foaming agents, dispersing agents, storage preservative based on BIT/ZPT

GISCODE BSW20

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 safety data sheet are available at www.suedwest.de

STORAGE

Cool, tightly sealed, and frost-free; protected against solar radiation.

DISPOSAL

Dispose of empty containers at an authorised hazardous waste centre. The current legal requirements regarding disposal must be observed.

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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