

Soudaseal Cleanroom

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Technical data

Basis	SMX Hybrid Polymer
Consistency	Stable paste
Curing system	Moisture curing
Skin formation* (20°C / 65% R.H.)	Ca. 10 min
Curing speed * (20°C / 65% R.H.)	2 mm/24h → 3 mm/24h
Hardness	40 ± 5 Shore A
Density	1,67 g/ml
Elastic recovery (ISO 7389)	> 75 %
Maximum allowed distortion	± 20 %
Temperature resistance	-40 °C → 90 °C
Max. tension (DIN 53504)	1,80 N/mm ²
Elasticity modulus 100% (DIN 53504)	0,75 N/mm ²
Elongation at break (DIN 53504)	750 %
Application temperature	5 °C → 35 °C

(*) these values may vary depending on environmental factors such as temperature, moisture, and type of substrates.

Product description

Soudaseal Cleanroom is a high quality, neutral, elastic, 1-component construction joint and adhesive sealant based on SMX Hybrid Polymer. Soudaseal Cleanroom is developed for sealing and bonding in cleanroom applications.

Properties

- Good extrudability
- Stays elastic after curing and very sustainable
- Excellent adhesion on nearly all surfaces, even if slightly moist.
- Can be painted with water based systems
- No odour.
- Very low emission, EC1 PLUS R certified
- Impervious to mould, contains ZnP (biocide with fungicidal action)
- Does not contain solvents, isocyanates, acids, halogens and toxic components, completely neutral.
- Colourfast.
- Good colour stability, weather and UV resistance

Applications

- Sealing and sticking applications in cleanroom applications.
- Sanitary applications.
- Strong elastic bonding in vibrating constructions.
- Sealing of floor joints.
- Sealing of several panel types (like e.g. HPL-panels).

Packaging

Colour: white, other colors on request
Packaging: 290 ml cartridge, 600 ml sausage

Shelf life

12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C.

Chemical resistance

Good resistance to water, aliphatic solvents, hydrocarbons, ketones, esters, alcohols, diluted mineral acids and alkalis and (salt) water. Poor resistance to aromatic solvents, concentrated acids and chlorinated hydrocarbons.

Remark: This technical data sheet replaces all previous versions. The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications which are out of our control, we cannot accept any responsibility for the results obtained. Since the design, the quality of the substrate and processing conditions beyond our control, no liability under this publication are accepted. In every case it is recommended to carry out preliminary experiments. Soudal reserves the right to modify products without prior notice.

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Substrates

Substrates: all usual building substrates, natural stone, treated wood, PVC, plastics
Nature: clean, dry, free of dust and grease.
Surface preparation: Porous surfaces in water loaded applications should be primed with Primer 150. All smooth surfaces can be treated with Surface Activator. The surfaces should be degreased before bonding them together. We recommend a preliminary adhesion test on every surface. Soudaseal Cleanroom has an excellent adhesion on most common substrates: all usual building substrates, natural stone, treated wood, PVC, plastics. Soudaseal Cleanroom has been tested on the following metal surfaces: steel, AlMgSi1, brass, electrolytic galvanised steel, AlCuMg1, flame galvanised steel, AlMg3 and steel ST1403. Soudaseal Cleanroom also has a good adhesion on plastics: polystyrene, polycarbonate (Makrolon®), PVC, ABS, polyamide, PMMA, fiberglass reinforced epoxy, polyester. While producing plastics very often releasing agents, processing aids and other protective agents (like protection foil) are used. These should be removed prior to bonding. For optimum adhesion the use of Surface Activator is recommended. NOTICE: bonding plastics like PMMA (e.g. Plexi® glass), polycarbonate (e.g. Makrolon® or Lexan®) in stress loaded applications can give rise to stress cracking and crazing in these substrates. The use of Soudaseal Cleanroom is not recommended in these applications. There is no adhesion on PE, PP, PTFE (Teflon®) and bituminous substrates. We recommend a preliminary compatibility test.

Joint dimensions

Min. width for bonding: 2 mm
Min. width for joints: 5 mm
Max. width for bonding: 10 mm
Max. width for joints: 30 mm
Min. depth for joints: 5 mm
Recommendation sealing jobs: joint width = 2 x joint depth.

Application method

Application method: With manual- or pneumatic caulking gun.
Cleaning: With Fix ALL Cleaner immediately after use.
Finishing: With a soapy solution or Soudal Finishing Solution before skinning.
Repair: With the same material

Health- and Safety Recommendations

Take the usual labour hygiene into account. Consult label for more information.

Remarks

- Soudaseal Cleanroom may be overpainted with water based paints, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before application.
- The drying time of alkyd resin based paints may increase.
- Soudaseal Cleanroom can be applied to a wide variety of substrates. Due to the fact that specific substrates such as plastics, like polycarbonate, etc, may differ from manufacturer to manufacturer, we recommend preliminary compatibility test.
- Soudaseal Cleanroom can not be used as a glazing sealant.
- Not suitable for bonding aquariums.
- Soudaseal Cleanroom can be used for adhering of and sealing on natural stone.
- When applying, make sure not to spill any sealant on the surface of materials.
- The sanitary formula should not replace regular cleaning of the joint. Excessive contamination, deposits or soap remainings will stimulate the development of fungi.
- A total absence of UV can cause a color change of the sealant.

Standards

- IKI (institute für Krankenhaushygiene, Giessen, Germany) approvals for Desinfection and barrier against micro-organisms (on Trespa Meteon panels).

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- Institut für Lufthygiene-Berlin: Insensitive to mold and bacteria according to ISO / DIN EN 846.
- Tested and in accordance with FDA regulation code CFR 21 paragr. 177.2600 (e) for repeated use in contact with aqueous foods.

Environmental clauses

Leed regulation:

Soudaseal Cleanroom conforms to the requirements of LEED. Low –Emitting Materials: Adhesives and Sealants. SCAQMD rule 1168. Complies with USGBC LEED® 2009 Credit 4.1: Low-Emitting Materials – Adhesives & Sealants concerning the VOC-content.

Liability

The content of this technical data sheet is the result of tests, monitoring and experience. She is general in nature and does not constitute any liability. It is the responsibility of the user to determine by his own tests whether the product is suitable for the application.

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