Technical datasheet

Soudaseal MS Clear

Product description

Soudaseal MS Clear is a high quality, crystal clear, neutral, elastic, one-component adhesive based on SMX-Polymer.



Properties

- Crystal clear formulation
- Very good adhesion on many materials, even if slightly moist
- Good mechanical characteristics
- Impervious to mould, contains biocide with fungicidal action
- Suitable for sanitary applications
- Good extrudability, even at low temperatures
- Solvent-free
- Can be painted with water based systems
- Permanently elastic after curing

Applications

- All common bonding applications, both in and outdoor
- Sealing joints indoors
- Elastic bonding in construction and building applications
- Invisible bonding of glass and other transparent materials in indoor applications
- Sealing joints in sanitary rooms (bathroom) and kitchens.

Technical data

Base		SMX Hybrid Polymer
Consistency		Stable paste
Curing system		Moisture curing
Skin formation		ca. 4 minutes
Curing speed		2 mm/24h → 3 mm/24h
Density		ca. 1.05 g/ml
Maximum allowed joint movement		± 20 %
Elasticity modulus	ISO 37	ca. 0.60 N/mm²
Elastic recovery	ISO 7389	> 75 %
Elongation at break	ISO 37	ca. 350 %
Maximum tension	ISO 37	ca. 1.80 N/mm²
Hardness		38 ± 5 Shore A
Application temperature		+5°C → +35°C
Temperature resistance		-40°C → +90°C

Footnote: Skinning time and curing speed may vary depending on environmental factors such as temperature, moisture, and type of substrates.

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Substrates

- Substrate condition
  The surface must be rigid, clean, dry or slightly moist, free of dust and grease.
- Substrate preparation
  Porous surfaces in water loaded applications should be primed with Primer 150. Prepare non-porous surfaces with a soudal activator or cleaner (see technical data sheet). 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 or sealing.
- Substrate types
  Soudaseal MS Clear has a good adhesion to following substrates: all usual building substrates, glass, lacquered wood, PVC, plastics, metal, brick, concrete, etc.. Soudaseal MS Clear has no good adhesion or is not suitable for PE, PP, PTFE (Teflon®), bituminous substrates, copper or copper containing materials such as bronze and brass. 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 MS Clear is not recommended in these applications. We recommend a preliminary adhesion and compatibility test on every surface.

Application method

- Application method
  Apply the product by means of a manual-, battery- or pneumatic- caulking gun. Apply the product evenly without air inclusions into the joint. Smoothen the joint with a spatula with the help of finishing solution. Avoid that finishing solution comes between the joint edges and sealant (to prevent adhesion loss). It is important to ventilate well the places where the product is applied. Continue to ventilate throughout the curing time.
- Cleaning method
  Clean with Soudal Surface Cleaner or with Soudal Swipex Wipes, immediately after use. Cured product can only be removed mechanically.
- Finishing method
  Finish with a soapy solution or Finishing Solution before skinning.
- Repair method
  Repair with the same material.

Health- and Safety Recommendations

Take the usual labour hygiene into account. Consult the packaging label and safety data sheet for more information.
Keep the area well ventilated during use and curing of the product.
Dangerous. Respect the precautions for use.

Packaging/Logistics

Colour: Please consult the product catalogue, the Soudal website or a Soudal representative.
Packaging: Please consult the product catalogue, the Soudal website or a Soudal representative.
Shelf life: 15 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C, Once opened the product has only a limited shelf life.

Joint dimensions

- Min. width for bonding: 1 mm
  Min. width for joints: 5 mm
  Max. width for bonding: 3 mm
  Max. width for joints: 10 mm
  Min. depth for joints: 5 mm

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Environmental clauses

- Leed regulation: Soudaseal MS Clear 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.

Remarks

- Soudaseal MS Clear is paintable with most waterbased paints, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before application.
- Soudaseal MS Clear 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 a preliminary compatibility test.
- Soudaseal MS Clear is not suitable for expansion joints.
- Not suitable for bonding aquariums.
- Do not use in applications where continuous water immersion is possible.
- Soudaseal MS Clear can discolour under extreme conditions or after very long UV exposure.
- Soudaseal MS Clear can not be used as a glazing sealant.
- Do not use on natural stones like marble, granite,...(staining).
- The sanitary formula should not replace regular cleaning of the joint. Excessive contamination, deposits or soap residues will stimulate the development of fungi.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.
- A total absence of UV can cause a color change of the sealant.
- Discoloration of the product due to chemicals, high temperatures, UV-radiation may occur.
- Contact with bitumen, tar or other plasticizer releasing materials such as EPDM, neoprene, butyl, etc. is to be avoided since it can give rise to discoloration and loss of adhesion.
- Limited UV-resistant.
- When applying the sealant outdoors, consider covering or painting it so it's not exposed to direct sunlight, which will avoid accelerated UV deterioration over time.

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. It is general in nature and does not constitute any liability. 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 are beyond our control, no liability under this publication is accepted. It is the responsibility of the user to determine by his own tests whether the product is suitable for the application. In every case it is recommended to carry out preliminary experiments. The manufacturer reserves the right to modify products without prior notice.

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