

Soudaseal 270HS

Revision: 22/06/2023

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Technical data

Basis	MS Polymer
Consistency	Stable paste
Curing system	Moisture curing
Skin formation* (23°C/50% R.H.)	Ca. 5 min
Curing speed * (23°C/50% R.H.)	3 mm/24h → 4 mm/24h
Hardness**	68 ± 5 Shore A
Density	1,52 g/ml
Maximum allowed distortion	± 20 %
Max. tension (ISO 37)**	2,80 N/mm ²
Elasticity modulus 100% (ISO 37)**	2,00 N/mm ²
Elongation at break (ISO 37)**	> 250 %
Temperature resistance**	-40 °C → 90 °C
Application temperature	5 °C → 35 °C

* These values may vary depending on environmental factors such as temperature, moisture, and type of substrates. ** This information relates to fully cured product.

Product description

Soudaseal 270HS is a high quality, neutral, elastic, 1-component adhesive sealant based on MS-Polymer.

- Elastic structural bonding in automotive applications: buses, trains, trucks, caravans or trailers ...
- Joints between metal plates.

Properties

- Excellent adhesion on nearly all surfaces, even if slightly moist.
- Very good mechanical characteristics.
- Combines high end strength with certain rigidity.
- Fast strength build-up.
- Very low emission, EC1+ certified
- Easy to use and apply, also under difficult circumstances.
- No bubble formation within sealant in high temperature and humidity applications.
- Good weather and UV resistance
- Free of isocyanates, solvents, halogens and acids
- Can be painted with water based systems and industrial varnishes and coatings.

Packaging

Colour: white, black

Packaging: 290 ml cartridge, 600 ml foil bag, other packaging on request

Shelf life

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

Chemical resistance

Poor resistance to aromatic solvents, concentrated acids and chlorinated hydrocarbons. Good resistance to water, aliphatic solvents, mineral oils, grease, diluted inorganic acids and alkalis.

Substrates

Substrates: all usual substrates for bonding, treated wood, PVC, ...

Nature: rigid, 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

Applications

- For use in elastic structural bonding applications where a tough and rigid bond is required.
- Structural bonding in vibrating constructions.

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 are beyond our control, no liability under this publication is 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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with Soudal Surface Activator.

Soudaseal 270HS has excellent adhesion on most substrates. Soudaseal 270HS has been tested on following metal surfaces: stainless steel, AlMgSi1, electro-galvanized steel, AlCuMg1, hot dip galvanized steel, AlMg3, steel ST1403. Soudaseal 270HS 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 or sealing. 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 270HS is not recommended in these applications. We recommend a preliminary adhesion test on any substrate. Not suitable for PE, PP, PTFE (eg Teflon®), bituminous substrates, copper or copper-containing materials such as bronze and brass.

Joint dimensions

The optimal bond thickness for this product is at least 2 mm for the elastic properties to come to full justice.

Application method

Application method: With manual- or pneumatic caulking gun.

Cleaning: Clean with White Spirit or Soudal Surface Cleaner immediately after use (before curing).

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.

Dangerous. Respect the precautions for use.

Remarks

- Soudaseal 270HS is paintable with most common paints. Due to the wide variety of lacquers and paints, a compatibility test is always recommended.
- The drying time of alkyd resin based paints may increase.
- Soudaseal 270HS 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 270HS can not be used as a glazing sealant.
- Soudaseal 270HS can be used for bonding of natural stone, but it cannot be used as a joint sealant on this type of surface.
- When applying, make sure that the surface of the materials is not smudged with sealant.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.

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