

# Soudaseal 270HS

Revision: 13/03/2014

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## Technical data

Basis	MS Polymer
Consistency	Stable paste
Curing system	Moisture curing
Skin formation* (20°C / 65% R.H.)	Ca. 5 min
Curing speed * (20°C / 65% R.H.)	3 mm/24h → 4 mm/24h
Hardness	68 ± 5 Shore A
Density	1,52 g/ml
Maximum allowed distortion	± 20 %
Temperature resistance	-40 °C → 90 °C
Short term temperature resistance	Minimum 30 min in paint strains at 200°C Minimum 45 min at 180°C
Max. tension (DIN 53504)	2,80 N/mm <sup>2</sup>
Elasticity modulus 100% (DIN 53504)	2,00 N/mm <sup>2</sup>
Elongation at break (DIN 53504)	> 250 %
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 270HS is a high quality, neutral, elastic, 1-component adhesive sealant based on MS-Polymer.

### Properties

- ☐ Excellent adhesion on nearly all surfaces, even if slightly moist.
  - ☐ Very good mechanical characteristics.
  - ☐ Combines high end strength with certain rigidity.
  - ☐ High initial tack and fast build-up of end strength.
  - ☐ Easy to use and apply, also under difficult circumstances.
  - ☐ No bubble formation within sealant in high temperature and humidity applications.
  - ☐ Good colour stability, weather and UV resistance
- Ecological advantages – free of isocyanates, solvents, halogens and acids  
Can be painted with water based systems and industrial varnishes and coatings.

### Applications

- For use in elastic structural bonding applications where a tough and rigid bond is required.
- Structural bonding in vibrating constructions.
- Elastic structural bonding in automotive applications: buses, trains, trucks, caravans, ship-building, ...
- Joints between metal plates.

### Packaging

*Colour:* white, black

*Packaging:* 290 ml cartridge, 600 ml sausage, 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.

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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### 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:* 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

Soudaseal 270HS has excellent adhesion on most substrates. Soudaseal 270HS is has been tested on following metal surfaces: stainless steel, AlMgSi1, brass, electrogalvanized 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. For optimum

with Surface Activator.

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. There is no adhesion on PE, PP, PTFE (Teflon®), silicones and bituminous substrates. We recommend a preliminary compatibility test.

#### **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 Surface 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.

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#### **Remarks**

- Soudaseal 270HS 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.
- The drying time of alkyd resin based paints may increase.
- Soudaseal 270HS can be painted immediately after application "wet on wet" with water based industrial paints in paint trains at temperatures of up to 200°C during up to 45 minutes.
- 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. Soudaseal 270HS can therefore only be used on the bottom of natural stone tiles.
- When applying, make sure not to spill any sealant on the surface of materials.