

Soudaseal AP-2

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Technical data

Base	Silyl-terminated polymer	
Sag	No sag in vertical displ. @50°C (120°F)	ASTM C 639
Curing system	Moisture Cure	
Skin Formation (*)	12 minutes	@ 23°C (75°F) & 50% relative humidity
Tack-free time (*)	175 minutes	ASTM C 679
Curing time (*)	36-72 hrs, 6 mm diameter bead (1/4")	@ 23°C (75°F) & 50% relative humidity
Hardness – Shore A	30 +/- 5	ASTM C 661
Tensile Yield	1.70 N/mm ²	ASTM D 412
Elongation	450%	ASTM D 412
Movement capability	+/- 35%	ASTM C 719
Stain and color change	Passes	ASTM C 510 (mortar)
Artificial weathering	No Cracking	ASTM C 793
Service temperature range	-40°C to +93°C (-40°F to +200°F)	
Application temperature range	-37°C to +60°C (-35°F to +140°F)	
Shelf life	12 months	Stored between +5°C & +25°C (41°F & 77°F)
VOC	< 2% - < 30 g/L	EPA method 24

* 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 AP-2 is a high quality, neutral, elastic, 1-component joint sealant based on MS-Polymer.

Properties

- Good adhesion to most common substrates, even on slightly wet substrates
- Easy to tool, extrude (even at low temperatures) and finish in all weather conditions.
- Permanently elastic after curing
- No odour
- No bubble formation within sealant in high temperature and humidity applications.
- Primerless application on many substrates (except where water pressure may occur)
- Can be painted with water based systems
- Good weather and UV resistance

- Free of isocyanates, solvents, halogens and acids

Applications

- Expansion and connection joints in the building industry: sealing of joints in prefabricated buildings, sealing between window and door frames,...
- Connection and expansion joints between window frames and walls.
- Expansion joints between many different construction materials.
- Sealing of expansion joints in facade systems with aluminum composite panels (see instructions of the supplier of the panels).
- Applications where the sealant needs to be overpainted with water based paints and varnishes.

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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Packaging

Colors: white, other colors on request
Packaging: 300 ml cartridge, 600 ml sausage (Soudaseal AP)

Shelf life

12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C. (41°F – 77°F)

Chemical resistance

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

Substrates

Substrates: all usual building substrates, aluminium, stone, treated wood, PVC, ...
Nature: rigid, clean, free of dust and grease.
Surface preparation: Soudaseal AP-2 has a good adhesion to most substrates. However, for optimal adhesion and in critical applications, such as joints exposed to extreme weather conditions, high- or water-loaded joints, we recommend to follow a pre-treatment procedure. Prepare non-porous surfaces with a Soudal activator or cleaner (see Technical Data Sheet). Porous surfaces should be primed with Primer 150. Not suitable for PE, PP, PTFE (eg Teflon®), bituminous substrates, copper or copper-containing materials such as bronze and brass. We recommend a preliminary adhesion and compatibility test on every surface.

Joint dimensions

Min. width for joints: 5 mm (1/4")
Max. width for joints: 30 mm (1 3/16")
Min. depth for joints: 5 mm (1/5")
Recommendation sealing jobs: joint width = 2 x joint depth.

Application method

Apply the product by means of a manual-, battery- or pneumatic- caulking gun. Apply Soudaseal AP-2 evenly without air inclusions

into the joint. Smoothen the joint with a spatula with the help of finishing solution. Avoid that soapy solution comes between the joint edges and sealant (to prevent adhesion loss).

Application method: With a manual, pneumatic or accu caulking gun.

Cleaning: Clean with Soudal Surface Cleaner or with Soudal Swipex, 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 and material safety data sheet for more information.

Remarks

- Soudaseal AP-2 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.
- Soudaseal AP-2 can not be used as a glazing sealant.
- A total absence of UV can cause a color change of the sealant.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.
- Not suitable for bonding aquariums.
- Do not use in applications where continuous water immersion is possible.
- Discoloration due to chemicals, high temperatures, UV-radiation may occur. A change in color does not affect the technical properties of the product.
- 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 discolouration and loss of adhesion.

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Standards and certificates

- Meets ASTM C-920 Type S, Grade NS Class 35, Use T, NT, A, and M
- AAMA 802.3-10 Type II, 803.3-10 Type I, 805.2-10 Group C & 808.3-10

Environmental clauses

Lead regulation:

Soudaseal AP-2 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. It 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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