

Soudaseal 212 CS

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Technical data

Basis	SMX Hybrid Polymer
Consistency	Stable paste
Curing system	Moisture curing
Skin formation* (23°C/50% R.H.)	Ca. 10 min
Curing speed * (23°C/50% R.H.)	2 mm/24h → 3 mm/24h
Hardness**	35 ± 5 Shore A
Density	Ca. 1,52 g/ml
Maximum allowed distortion (ISO 11600)	± 25 %
Maximum allowed distortion (ASTM C719)	± 50 %
Max. tension (ISO 37)**	Ca. 1,50 N/mm ²
Elasticity modulus 100% (ISO 37)**	Ca. 0,49 N/mm ²
Elongation at break (ISO 37)**	Ca. 750 %
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 212 CS is a high quality, neutral, elastic, 1-component joint sealant based on SMX-Polymer.

Properties

- Good extrudability
- Stays elastic after curing and very durable
- Excellent adhesion on nearly all surfaces, even if slightly moist.
- Can be painted with water based systems
- No odour.
- Does not contain solvents, isocyanates, acids, halogens and toxic components, completely neutral.
- Good weather and UV resistance
- No staining on porous surfaces such as marble, granite and other natural stones

Applications

- Expansion and connection joints indoor in the building industry: sealing of perimeter joints between window and door frames, joints between wall and ceiling,...
- Sealing and bonding in the building and construction industry.
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- Universal adhesive and joint sealant.

Packaging

Colour: white, grey, other colors on request
Packaging: 280 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.

Substrates

Substrates: all usual building substrates, treated wood, PVC, plastics, brick, concrete, ceramic tiles, glass, metals, natural stone
Nature: rigid, clean, dry, free of dust and grease.
Surface preparation: Soudaseal 212 CS 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 in water loaded applications should be primed with Primer 150.
Soudaseal 212 CS has an excellent adhesion on most common substrates: all usual building

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substrates, treated wood, PVC, plastics, brick, concrete, ceramic tiles, metals, natural stone. Soudaseal 212 CS has been tested on the following metal surfaces: steel, AlMgSi1, electrolytic galvanised steel, AlCuMg1, flame galvanised steel, AlMg3 and steel ST1403. Soudaseal 212 CS also has a good adhesion on plastics: polystyrene, PVC, fiberglass reinforced epoxy, polyester. 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 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

Apply the product by means of a manual-, battery- or pneumatic- caulking gun. Apply Soudaseal 212 CS 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. Cured Soudaseal 212 CS can only be removed mechanically.

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 212 CS 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 212 CS can not be used as a glazing sealant.

A total absence of UV can cause a color change of the sealant.

The sanitary formula should not replace regular cleaning of the joint. Excessive contamination, deposits or soap remainings 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.

Not suitable for bonding aquariums.

Do not use in applications where continuous water immersion is possible.

Soudaseal 212 CS has a good UV resistance but can discolour under extreme conditions or after very long UV exposure.

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 C920 Type S, Grade NS,
Class 50, Use T, NT, A and G
Tested according to ASTM C1248: no
staining on natural stone

Environmental clauses

Lead regulation:

Soudaseal 212 CS 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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