

Technical Documentation

SEAL-IT® 322 HYBRID-FR

Product

SEAL-IT® 322 HYBRID-FR is a high-quality, fire-resistant certified and highly elastic sealant based on MS-Polymer®. Specifically for sealing fire-retardant movement joints in façades and floors. Up to 3 hours fire-resistant tested by Peutz, in accordance with EN 1366-4:2021.

Applications

- Specifically for sealing expansion and connection joints between building and façade elements, which must be fire-resistant and prevent the spread of fire and toxic fumes.
- Sealing of movement joints, such as longitudinal/between concrete parts and masonry.
- Joint sealing in façades, floors, galleries, stairwells, and balconies.
- Sealing of connection joints around/along facades, windows, window, and door frames.
- Sealing of prefabricated elements, sheet materials and panels.

Properties

- Fire-resistant for up to 3 hours, depending on the structure, in accordance with **EN 1366-4**.
- Long-lasting, permanently elastic.
- Suitable for horizontal and vertical joints, up to 40 mm wide.
- Can be painted over with dispersion paints.
- Isocyanate, phthalate, solvent, and silicone free.
- Low-odour, blister- and shrink-free curing, **CE** certified.
- Very low emission, certified according to EMICODE EC1 PLUS.
- Permanently resistant to UV, weather, water, moisture, and ageing.



Standard product line

Color	12 x 290ml cartridge	12 x 600ml foil pack
Concrete grey	SI-322-7116-290	SI-322-7116-600
White	SI-322-9100-290	SI-322-9100-600

Other colours and/or packaging on request.

Connect Products B.V.

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Technical product data

PROPERTY	STANDARD	SPECIFICATION
Base		MS-POLYMER® 1-COMPONENT
Viscosity	ISO 7390	<2 mm
Density		1.43 g/ml
Skin formation time	+23°C/55% RH	10-15 minutes
Curing after 24 hours	+23°C/55% RH	+/- 2mm
Permissible deformation	EN15651-1: F-EXT-INT-CC-25	25%
Temperature resistance after full curing		-40/+90°C
Mechanical values		2 mm film
Shore A hardness	ISO 868	31
Modulus 100%	ISO 37	0.89 MPa
Tensile strength	ISO 37	1.59 MPa
Elongation at breakingpoint	ISO 37	350%
Shrinkage		None



Shelf life

Store in unopened original packaging, store in a cool and dry place, between +5°C and +30°C.
Can be kept for up to 15 months after production date.

Application conditions

- Application temperature (ambient and substrate) between +5°C and +40°C.
- On clean, clean, dry, load bearing, compatible, dust- and grease-free surfaces.
- Ensuring the right joint dimensions to be able to absorb movements properly.
- Remove loose components from the surface using a suitable brush.
- Degrease surfaces thoroughly using Seal-it® 510 CLEANER.
- Seal-it® 322 HYBRID-FR has a broad adhesion spectrum, but highly porous surfaces should be pre-treated with Seal-it® 520 PRIMER and non-porous surfaces with minimal adhesion should be pre-treated with Seal-it® 525 Clean & Bond.
- Smooth and tight finish, using Seal-it® 550 FINISH, for skin formation.

Paintability

Seal-it® 322 HYBRID-FR is excellent to repaint with emulsion paints, but synthetic paint systems can slow down in drying. When overpainting (not necessary), we recommend that you lightly sand the Seal-it® 322 HYBRID-FR and adjacent parts with Scotch-Brite® within a few days after application, then degrease well with Seal-it® 510 CLEANER and then paint over immediately. Always apply paint systems professionally and at the correct ambient and substrate temperature (see TDS paint manufacturer). Always carry out a paint compatibility test beforehand.

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Limitations and recommendations

SEAL-IT® 322 Hybrid-FR is not suitable for constant water loads. Unsuitable for PE, PP, PTFE, PC, PMMA, PTFE, soft plastics, neoprene, and bituminous substrates. Discoloration may be possible. occur in certain circumstances, such as direct contact with chemicals, application in dark rooms/places and/or plasticizer exit from the substrate. Non-fungal. Make sure there is sufficient humidity from the immediate environment. Do not load mechanically, thermally, and chemically, for complete curing. Repair with the same product. Sealant joints function more sustainably if they are subject to periodic maintenance and timely repairs. Always test the adhesion and material and paint compatibility beforehand.

Cleaning

Remove fresh, uncured and/or excess material from surfaces and tools using water. Clean hands/skin using SEAL-IT® 515 ULTRA-WIPES or soapy water. Cured material can only be removed mechanically with the right tools.

Health and safety

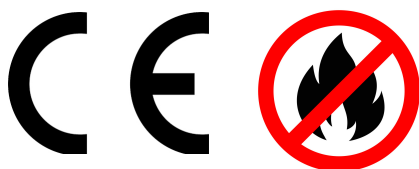
Avoid prolonged skin contact. If uncured material gets into the eyes, rinse them immediately with water and consult a doctor. Product safety data sheet is available upon request.

Warranty and Liability

Connect Products B.V. guarantees that its product is in accordance with the specifications within the shelf life. The liability will never exceed what is stipulated in our general terms and conditions of sale and delivery. Under no circumstances shall the Seller be liable for any consequential damages. The information provided is the result of our testing and experience and is of a general nature. However, it does not imply any liability. It is the user's responsibility to determine whether the product is suitable for the application through their own testing.

Certifications

EN 15651-1: F-EXT-INT-CC-25
EN 1366-4 :2021
VOC emission class A+.
EMICODE EC-1 PLUS.



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