



Product

Seal-it® 220 SILICON-FR is a certified-fireproof, high-quality, neutral-curing sealant for linear joints in structures, glazing and façades that is based on silicone technology and moisture- cures into a durable rubber that retains its elasticity.

Applications

- Specially developed as a durable fireproof sealant for expansion joints in façade, floor, ceiling, roof and interior and exterior wall structures that effectively counteracts the spread of fire, smoke and toxic fumes.
- Certified sealant for joints in buildings, homes and public spaces that are part of fireproof/fire-retardant structures/systems subject to strict fire safety requirements.
- Fireproof top and bead seals in glazing systems in buildings, in accordance with NEN 3576/NPR 3577.
- Fireproof seals for connecting, peripheral and dilation joints between/along building and façade components, such as windows, door and window frames, sections, prefab parts and panels.
- Smoke and vapour-tight seals on connections in smoke exhaust duct systems.
- Preventive sealing/filling of tube, pipe, line, cable and duct penetrations in floors, ceiling, roofs and interior and exterior façades and walls.
- Fireproof joint seals in installation technology

Colours : white, grey, black, RAL 7016
Other colours and/or packaging on request

Packaging: 12 sausages (600 ml)

Properties

- Durable, retains elasticity, maximum movement capacity of 25%.
- Certified-fireproof, non-flammable, provides a secure barrier against the spread of smoke and fumes.
- Excellent working and adhesion properties, on practically any porous or non-porous surface, without primer.
- Neutral, low-odour, acid-free and non-shrink curing CE-certified silicone system.
- Meets requirements for intruder-resistant glass, in accordance with the Secure HomePolice Label (the “Politie Keurmerk veilig wonen”).
- Good resistance to discolouration, UV, weather, water, moisture and ageing.
- Non-corrosive to metals.
- Compatible in direct contact with PVB-laminated glass and edge seals on insulating glass.
- Free of solvents and organic plasticisers.
- Very low emission: certified VOC emission class A+.

Technical product data

Property	Value + unit
Viscosity (ISO 7390)	< 2 mm
Density	1,17 g/ml
Skin formation time (23°C and 55% R.H.)	15 minutes
Cures in 24 hours (23°C and 55% R.H.)	1-2 mm
Contraction	nihil
Permissible deformation	25%
Temperature resistance once fully cured	-40°C to +120°C
Mechanical values	2 mm film
Shore A hardness (DIN 53505)	23°
Modulus at 100% (DIN 53504)	0,38 MPa
Tensile strength (DIN 53504)	1,48 MPa
Stretch at breaking point (DIN 53504)	615 %
Certifications	- EN 15651-1: F-EXT-INT 25HM - EN 13501-2:2007+A1:2009 LINEAR JOINTS (see EFECTIS test report) - EN 1366-4 :2006 +A1-2010 LINEAR JOINTS (see EFECTIS test report) - EUROFINS LEED® - VOC-emission class A+
Storage life	In unopened original packaging, stored in a cool dry place between +5°C and +25°C, the product will last up to 15 months after the production date.

Application conditions

- Application temperature (ambient and surface) between +5°C and +40°C.
- On stable, compatible, dry, clean, uncontaminated, grease-free and dust-free surfaces.
- Ensure proper joint dimensions, for proper absorption of any movements.
- Use a suitable brush to remove any loose particles from the surface.
- Degrease the surface properly using Seal-it® 510 CLEANER.
- Seal-it® 220 SILICON-FR has a broad bonding spectrum, but highly porous surfaces should be pre-treated with Seal-it® 520 PRIMER and non-porous surfaces with minimal bonding should be treated with Seal-it® 525 Clean & Bond.
- Use Seal-it® 550 FINISH to apply a smooth and tight finish, before skin formation.

220 SILICON-FR

Paintability

Seal-it® 220 SILICON-FR is not paintable. We recommend taping off joint edges to prevent silicone contamination on unpainted adjacent surfaces.

Cleaning

Remove fresh/uncured material from surfaces and tools using Seal-it® 510 CLEANER. Clean hands/skin with Seal-it® 515 ULTRA-WIPES. Cured material must be removed mechanically.

Limitations and recommendations

Not suitable for natural stone applications. Not suitable for PE, PP, PC, PMMA, PTFE, soft plastic, neoprene or bituminous surfaces. Not fungicidal. Discolouration may occur under certain conditions, such as due to direct contact with chemicals, applications in dark rooms/spaces or release of plasticiser from the surface. Ensure adequate humidity in the immediate environment. We recommend testing adhesion and material compatibility in advance.

Health and safety

Avoid long-term contact with skin. If uncured material gets in your eyes, rinse out thoroughly with plenty of water and consult a physician. Use in well ventilated spaces and/or locations. The product safety data sheet is available on request.

General information

The information contained in this document is provided in good faith and is believed to be correct. However, we have no influence on the conditions in which these products are used or the methods by which they are used. Therefore, this information is not a substitute for tests which the customer must perform himself/herself in order to ensure that the products are safe, effective and achieve the intended purposes. Suggestions regarding the use of the product must not be used as grounds for infringement of any patent whatsoever. The only guarantee Castelein Sealants offers is that this product complies with the Castelein Sealants terms and conditions of sale in force at the time of shipment. Your only remedy in the event of a breach of this guarantee is the refund of the purchase price or the replacement of the product that does not comply with the guarantee.

Technical data of supplier: 2017 09 05

The producer reserves the right to make changes. 2020 04 01