

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.

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 Home Police 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+.



Standard product line

Colour	12 x 600ml foil pack
Grey	SI-220-7001-600
White	SI-220-9100-600
Black	SI-220-9200-600

Other colours and/or packaging on request.

Technical product data

Base	SILICONE OXIME		
Viscosity	mm	ISO 7390	<2
Density	g/ml		1.17
Skin formation time	min.	23°C/55% RH	15
Cures in 24 hours	mm	23°C/55% RH	1-2
Contraction			None
Permissible deformation	%		25
Temperature resistance once fully cured	°C		-40/+120
Mechanical values	2mm film		
Shore A hardness		DIN 53505	23
Modulus at 100%	MPa	DIN 53504	0.38
Tensile strength	MPa	DIN 53504	1.48
Stretch at breaking point	%	DIN 53504	615



Shelf 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.

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 & 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 & 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.

Warranty & liability

Connect Products BV guarantees that its product will meet the specifications during its shelf life. Liability shall never exceed that stipulated in our terms and conditions of sale and supply. Under no circumstances shall the seller be held liable for any consequential damages. The information provided is the result of our testing and experience and is general in nature. However, it does not entail any liability. Users are responsible for performing their own tests to determine whether the product is suitable for the application.

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+



efectis
group

