

Sikaflex®-221

One-component polyurethane sealant

Technical Product Data

Chemical base	1-C polyurethane
Colour (CQP ¹ 001-1)	White, grey, black, brown
Cure mechanism	Moisture-curing
Density (uncured) (CQP 006-4)	1.3 kg/l approx. depending on colour
Non-sag properties	Good
Application temperature	5 - 40°C (40 - 105°F)
Tack free time ² (CQP 019-1)	60 min. approx.
Open time ² (CQP 526-1)	45 min. approx.
Curing speed (CQP 049-1)	(see diagram)
Shrinkage (CQP 014-1)	5% approx.
Shore A-hardness (CQP 023-1 / ISO 868)	40 approx.
Tensile strength (CQP 036-1 / ISO 37)	1.8 MPa approx.
Elongation at break (CQP 036-1 / ISO 37)	500% approx.
Tear propagation resistance (CQP 045-1/ ISO 34)	7 N/mm approx.
Glass transition temperature (CQP 509 -1/ ISO 4663)	-45°C (-50°F) approx.
Thermal resistance (CQP 513-1)	90°C (195°F)
Short term	1 day 120°C (250°F) 1 hour 140°C (285°F)
Service temperature	-40 - 90°C (-40 - 195°F)
Shelf life (storage below 25°C) (CQP 016-1)	12 months

¹⁾ CQP = Corporate Quality Procedure ²⁾ 23°C / 50% r.h.

Description

Sikaflex®-221 is a high-quality multi-purpose non-sag 1-C polyurethane sealant that cures on exposure to atmospheric humidity to form a durable elastomer. For US: Meets ASTM C920 and Federal Specifications TT-S-00230C.

Sikaflex®-221 is manufactured in accordance with ISO 9001 / 14001, quality assurance system and with the responsible care program.

Product Benefits

- 1-C formulation
- Elastic
- Low odour
- Resistant to ageing
- Non-corrosive
- Can be overpainted
- Can be sanded
- Bonds well to a wide variety of substrates
- NSF-approved for incidental food contact.

Areas of Application

Sikaflex®-221 bonds well to a wide variety of substrates and is suitable for making permanent elastic seals. Suitable substrate materials are metals, metal primers and paint coatings (2-C systems), ceramic materials and plastics.

Seek manufacturer's advice before using on transparent and pigmented materials that are prone to stress cracking.

This product is suitable for experienced professional users only.

