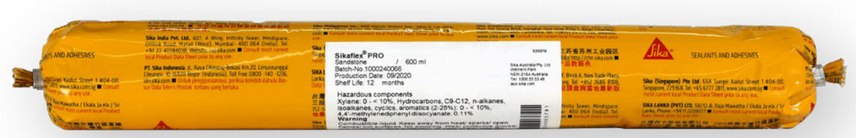
TECHNICAL DATA SHEET

# Sikaflex® PRO

## PRODUCT DESCRIPTION

Sikaflex® PRO is a one-component, moisture-curing Sikaflex polyurethane sealant designed for movement and connection joints in concrete, masonry, and porous substrates. It is suitable for both indoor and outdoor applications, providing durable, elastic sealing performance.

This concrete joint sealant is formulated with high flexibility and strong adhesion, ensuring long-term performance under varying service and weather conditions. It complies with major international standards and is certified for use in potable water applications.




### FEATURES & BENEFITS

- ±25% movement capability (ISO 9047, ASTM C719)
- Excellent adhesion to porous substrates without primer
- Good workability and non-sag consistency
- Resistant to weathering, UV, and ageing
- Certified potable water safe (AS/NZS 4020:2018)
- Can be over-painted with most façade coatings*
- Available in two colours, including Sikaflex Pro Grey 600ml and Sikaflex Pro Dark Grey 600ml

### APPLICATIONS

- Movement and connection joints in masonry joint sealant applications
- Sealing and bonding in precast concrete, brickwork, and blockwork
- Indoor and outdoor general sealing for facades and cladding
- Perimeter seals around windows and doors
- Expansion joints in infrastructure and building works
- Potable water system sealing (AS/NZS 4020:2018 compliant)
- Large-scale applications requiring sikaflex pro 600ml foil packs for efficiency

### STANDARD COMPLIANCE

- AS/NZS 4020:2018 – Potable water approved
- ISO 11600 F 25 LM
- ASTM C920, Class 25
- LEED EQc 4.1
- SCAQMD Rule 1168
- BAAQMD Reg. 8, Rule 51

### PACKAGING & AVAILABILITY

| Code | Product Name |
|---|---|
| 126988 | Sikaflex Pro Dark Grey 600ml |
| 102021 | Sikaflex Pro Grey 600ml |

## TECHNICAL SPECIFICATIONS

### PHYSICAL PROPERTIES

| Property | Result | Test Method |
|---|---|---|
| Density | ~1.25 kg/L | ISO 1183-1 |
| Shore A Hardness | ~25 (after 28 days) | ISO 868 |
| Secant Tensile Modulus | ~0.35 N/mm² at 100% (23 °C)<br>~0.50 N/mm² at 100% (−20 °C) | ISO 8339 |
| Tensile Strain at Break | ~750% | ISO 37 |
| Movement Capability | ±25% | ISO 9047 / ASTM C719 |
| Elastic Recovery | ~90% | ISO 7389 |
| Tear Resistance | ~5.5 N/mm | ISO 34 |
| Service Temperature | −40 °C to +70 °C | – |
| Curing Rate | ~3 mm/24 hrs at 23 °C / 50% RH | CQP 049-2 |
| Skinning Time | ~170 minutes | CQP 019-1 |
| Tooling Time | ~150 minutes | CQP 019-2 |
| Sag Flow | 0 mm (20 mm profile, 50 °C) | ISO 7390 |

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

- Substrates must be clean, dry, sound, and free from oils, grease, dust, laitance, and friable particles.
- Sikaflex® PRO generally adheres without primers on many porous substrates.
- For optimum adhesion in critical applications (multi-storey buildings, highly stressed joints, water immersion, or extreme weather exposure), priming or surface pre-treatment may be required:
  - Non-porous substrates (such as aluminium, stainless steel, galvanised steel, coated metals, PVC, and glazed tiles): Clean thoroughly and apply a suitable primer if required.
  - Porous substrates (such as concrete, mortars, aerated concrete, and brick): Apply a suitable primer if required, allowing the recommended flash-off time.

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## APPLICATION METHOD / TOOLS

- Sikaflex® PRO is supplied ready to use.
- Insert a backing rod or bond breaker to control joint depth and prevent three-sided adhesion.
- Extrude sealant into the joint using a standard sealant gun, ensuring full contact with joint sides and avoiding air entrapment.
- Tool the sealant firmly to achieve proper adhesion and a smooth finish.
- Use masking tape to achieve clean joint lines; remove before skin formation.
- Joints may be tooled dry for a slightly textured finish or tooled wet (using an approved tooling fluid) for a smooth surface.
- Do not use tooling agents that contain solvents.

## CLEANING

- Clean tools and equipment immediately after use with a suitable cleaner.
- Once cured, the sealant can only be removed mechanically.

## JOINT DESIGN

The joint width must suit the expected movement and the sealant's movement capacity.

- Minimum width: 10 mm
- Maximum width: 40 mm
- Width-to-depth ratio: 2:1 (unless otherwise specified)

## STANDARD JOINT WIDTHS FOR CONCRETE ELEMENTS:

| Joint Distance (m) | Min. Joint Width (mm) | Min. Joint Depth (mm) |
|---|---|---|
| 2 | 10 | 10 |
| 4 | 15 | 10 |
| 6 | 20 | 10 |
| 8 | 30 | 15 |
| 10 | 35 | 17 |

## COVERAGE (600 ML FOIL PACK)

| Joint Width (mm) | Joint Depth (mm) | Yield (m/pack) |
|---|---|---|
| 10 | 10 | 6 |
| 15 | 10 | 4 |
| 20 | 10 | 3 |
| 25 | 12 | 2 |
| 30 | 15 | 1.3 |

## LIMITATIONS

- Not suitable for natural stone, bitumen, natural rubber, EPDM, or substrates that bleed oils/plasticisers.
- Not suitable for joints in swimming pools or permanently immersed conditions.
- Over-painting may affect elasticity; compatibility testing required.
- Do not expose uncured sealant to alcohol-containing products.

## STORAGE:

- Shelf life: 12 months from production in original, unopened packaging.
- Storage: Store in dry conditions at +5 °C to +25 °C, away from direct sunlight.

# SAFETY INFORMATION

## CLASSIFICATION

- Flammable liquid (Cat. 4),
- Aquatic Acute Hazard (Cat. 3)

## GHS HAZARD CLASS

- **Signal Word:** WARNING
- **Hazard Statements:**
  - H227: Combustible liquid
  - H402: Harmful to aquatic life

## PRECAUTIONS

- P210: Keep away from heat, sparks, open flames, hot surfaces
- P273: Avoid release to the environment
- P280: Wear gloves, protective clothing, and eye/face protection

## FIRST AID MEASURES

- **Inhalation:** Move the victim to fresh air. Seek medical advice if symptoms persist.
- **Skin Contact:** Wash with soap and water. Seek medical attention if irritation continues.
- **Eye Contact:** Rinse with water for several minutes. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth, do not induce vomiting. Give water to drink, seek medical advice.

## FIRE FIGHTING MEASURES

- Suitable media: dry sand, dry chemical, alcohol-resistant foam, $CO_2$.
- Avoid water for direct extinguishing.
- Firefighters: wear SCBA.

## ACCIDENTAL RELEASE MEASURES

- Avoid entry into drains and waterways.
- Absorb with a cloth or inert absorbent and collect in sealed containers for disposal.

## DISPOSAL CONSIDERATIONS

- Dispose of product and packaging via approved waste contractor.
- Do not reuse empty containers.

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