BUILDING TRUST
CONSTRUIRE LA CONFIANCE

PRODUCT DATA SHEET

# Sikaflex® Construction Pro

High-performance polyurethane sealant

## PRODUCT DESCRIPTION

Sikaflex® Construction Pro is a one-component, moisture-curing, low-modulus polyurethane sealant for construction sealing applications. It cures to form a durable and elastic joint seal with long-term flexibility and consistent performance across a range of common construction substrates.

## WHERE TO USE

Sikaflex® Construction Pro adheres to typical construction materials including cement-based substrates, brick, ceramic, glass, wood, galvanized and painted metals.
Sikaflex® Construction Pro is suitable for a wide range of construction applications, including:

- Expansion joints between similar and dissimilar construction materials
- Movement and connection joints in vertical and horizontal applications
- Joints in indoor and outdoor pedestrian and light traffic areas
- Joints between prefabricated construction elements
- Sealing of ventilation ducts, gutters, and drainage components

## CHARACTERISTICS / ADVANTAGES

- Movement capability of ± 25 %
- High elasticity and flexibility
- Adheres to a wide range of common construction substrates
- Low shrinkage during curing
- Bubble-free curing under normal conditions
- Thixotropic, non-sag consistency
- Suitable for vertical and overhead applications
- Non-tacky surface after curing
- Easy application and tooling
- Can be overcoated after curing

## APPROVALS / CERTIFICATES

Complies with ASTM C920 for Elastomeric Joint Sealants, Class 25 (Type S, NS; Uses NT/A/M).

## PRODUCT INFORMATION

| | |
|---|---|
| **Composition / Manufacturing** | Polyurethane |
| **Packaging** | 600 ml (20.3 US fl. oz) sausage / 12 sausages per box |
| **Colour** | Black, White, Limestone, Aluminum Grey |
| **Shelf Life** | 15 months from date of production |
| **Storage Conditions** | Store in original, unopened, and undamaged packaging in dry conditions, |

| | |
|---|---|
| | protected from direct sunlight, at temperatures between 10 °C (50 °F) and 25 °C (77 °F) |
| **Density** | 1.20 ± 0.03 g/ml (approx. 10.0 ± 0.25 lb/US gal) |
| **Consistency** | Thixotropic |

## TECHNICAL INFORMATION

| | | |
|---|---|---|
| **Shore A Hardness** | 30-35 After full cure | (ASTM C661) |
| **Elastic Recovery** | ≥ 70 % After full cure | (ISO 7389) |
| **Movement Capability** | ± 25 % | |
| **Service Temperature** | −40 °C to 90 °C (−40 °F to 194 °F) | |
| **Joint Design** | Joint width/depth ratio should be approximately 2:1 | |
| **Elongation at break** | ≥ 600 %<br>≥ 100 % | (ASTM D412 [Dumble test])<br>(ISO 8339 [Glass–Glass]) |

## APPLICATION INFORMATION

**Yield**

| Joint Width | Joint Depth | Joint Length / 600ml (20.3 US fl. oz) sausage |
|---|---|---|
| 15 mm (5/8 in) | 8 mm (¼ in) | 5 m (16 ½ ft) |
| 20 mm (¾ in) | 10 mm (3/8 in) | 3 m (9 ¾ ft) |
| 25 mm (1 in) | 12 mm (½ in) | 2 m (6 ½ ft) |
| 30 mm (1 ¼ in) | 15 mm (5/8 in) | 1.3 m (4 ¼ ft) |
| 35 mm (1 3/8 in) | 15 mm (5/8 in) | 1.1 m (3 ¾ ft) |

| | | |
|---|---|---|
| **Backing Material** | Use Sikaseal®-414 Backer Rod to control joint depth and prevent three-sided adhesion | |
| **Sagging** | 0 mm | (EN ISO 7390) |
| **Substrate Temperature** | 5 °C to 40 °C (41 °F to 104 °F) | |
| **Curing Rate** | ≥ 2.5 mm / 24 h (0.098 in / 24 h) at 23 °C (73 °F) and 50% RH | |
| **Tack-free time** | 20 – 70 minutes (23 °C [73 °F], 50% RH) | |
| **Curing Treatment** | Moisture curing | |

## BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

## WHERE TO USE

- Do not use in fully confined spaces where curing cannot occur due to lack of atmospheric moisture.
- Not suitable for applications involving continuous water immersion.
- Do not apply on frozen, wet, or damp surfaces, or through standing water.
- Prolonged direct sunlight exposure may cause slight discoloration.
- Avoid application at temperatures below 5 °C (41 °F) or above 40 °C (104 °F).
- Overcoating with water, oil, or rubber-based paints requires prior compatibility and adhesion testing.

## ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

The substrate must be sound, clean, and dry before applying Sikaflex® Construction Pro. Remove all dust, loose particles, oils, and contaminants that could impair adhesion using a stiff brush or compressed air. For cracks of significant depth, install a suitable backer rod to control joint depth and prevent three-sided adhesion. Ensure the substrate is free from standing water and frost prior to application.

Appropriate preparation depends on the substrate:
- Glass: Degrease using alcohol or MEK.
- Aluminum, light alloys, stainless steel: Degrease using alcohol or MEK.
- Other metals: Lightly abrade the surface, then degrease with alcohol or MEK.
- Wood: Lightly abrade and remove surface dust.
- Concrete and other alkaline surfaces: Brush to remove dust and loose material.

### APPLICATION

Apply Sikaflex® Construction Pro evenly into the joint using a suitable sausage gun. Tool the sealant immediately after application to ensure full contact with the joint surfaces and a smooth finish.
Use a backer rod to control joint depth, maintain proper joint dimensions, and prevent three-sided adhesion, which can restrict sealant movement. The backer rod should be at least 25% wider than the joint width.

### CLEAN UP

Uncured sealant can be removed from tools and surfaces using a suitable solvent such as alcohol or MEK, while cured sealant must be removed mechanically.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

## LEGAL NOTES



**Sika Canada Inc.**
Head Office
601, avenue Delmar
Pointe-Claire, Quebec
H9R 4A9
1-800-933-SIKA
www.sika.ca

**Other locations**
Boisbriand (Quebec)
Brantford; Cambridge;
Sudbury; Toronto (Ontario)
Edmonton (Alberta)
Surrey (British Columbia)