



Sikaflex®-Pro 3WF

One Part Chemical resistant Polyurethane Sealant

Technical Data Sheet

DESCRIPTION

Sikaflex-Pro 3WF is a permanently elastic, one part gun grade polyurethane construction sealant, based on new Sika polyurethane technology. The unique two stage cross linking process eliminates many of the problems associated with conventional single stage cross-linking sealants. When combined with the water resistant primer, **Sikaflex-Pro 3WF** can be applied to moist substrates.

USES

- * Industrial floors
- * Containment bunds
- * Sewage treatment plants
- * Car parks
- * Balconies
- * Retaining walls
- * Footbridges
- * Sewer pipes

ADVANTAGES

- * Excellent bond to most construction materials
- * Good chemical resistance
- * One component - ready for use
- * No mixing or heating
- * Excellent adhesion on moist substrates with unique priming system
- * Reduced primer waiting time
- * Extremely durable
- * Bubble free curing system
- * Permanently elastic over a wide range of temperatures
- * Good sag resistance
- * Good water resistance
- * Good mechanical properties.

Technical Data (typical)

Colour:	Black, white, beige, grey, brown
Density:	1.3 kg/litre
Movement Accommodation Factor (MAF):	20%
BS ISO 1160 Classification:	F-20 HM
Service temperature range:	-40°C min, +80°C max
Cure rate:	2 mm/day (+20°C / 65% RH)
Application temperature:	+5°C min, +40°C max (Substrate and ambient)
Shore A hardness:	35 after 28 days (+23°C / 50% RH)
Tack free time:	1 - 2 hours (+23°C / 50% RH)
Elastic recovery:	Approx 80% 
Tensile strength at break:	> 1.4 N/mm ²
Maximum joint width:	40.0 mm
Minimum joint depth for expansion joints:	10.0 mm
Chemical resistance:	Refer to chart Good chemical resistance to a wide range of chemicals. Swelling possible. Refer to chemical resistance chart. Contact Sika Ltd for information.

All above values are approximate.

SURFACE PREPARATION

All surfaces must be sound, clean, dry and free from any surface contaminants.

All loose particles, paint, laitance, rust and other poorly adhering materials should be removed with a rotary mechanical wire brush, grinding or grit blasting followed by blowing out with oil free compressed air. Use epoxy mortars for making good spalled or damaged joints.

Iron and steel must be protected by an anti-corrosion primer such as **Icosit® EG1** prior to sealing.

PRIMING

For the selection of the suitable primer, please consult the Primer Chart. When using **Sika® Primer 3** on moist substrate, maximum substrate moisture content must not exceed 8%.

APPLICATION

Insert **Sika Joint Backing Rod** to required depth.

- * Apply appropriate primer to joint sides and observe waiting time.
- * Firmly extrude **Sikaflex-Pro 3WF** into the joint making sure that it is in full contact with the sides of the joint.
- * Fill the joint, avoiding air entrapment.
- * **Sikaflex-Pro 3WF** should be tooled to a smooth finish.

Masking tape should be used where sharp exact joint lines or exceptionally neat lines are required. Remove the tape whilst the sealant is still soft.

IMPORTANT CONSIDERATIONS

- * **Sikaflex-Pro 3WF** should not be used for structural glazing.
- * Protect the finished joint from water for at least 3 hours.
- * **Sikaflex-Pro 3WF** should be used with care in resealing joints that were previously filled with silicone sealants. All silicone residue must be removed.
- * **Sikaflex-Pro 3WF** should not be applied to coated substrates.
- * Avoid contact with hot bitumen.
- * Slight colour variations may occur from exposure to chemicals and UV radiation.
- * Do not use detergents or soap during tooling operation as chemical resistance may be affected.
- * Chemical exposure and joint movements more than 10% is not permitted during curing.
- * In case of chemical exposure the resistance of the sealant is limited. Joints exposed to chemicals are service joints and may have to be refurbished after exposure.
- * Not recommended for swimming pool chemical exposure.

CLEANING

Clean tools immediately with **Sika Thinner C**.

PACKAGING

Refer to latest price list.

JOINT DESIGN

Refer to BASA/CIRIA Guidelines. (CIRIA Publications 80).

CONSUMPTION

Theoretical consumption of **Sikaflex-Pro 3WF** per 600cc sausage (without wastage):

$$\text{Length of joint per 600cc (m)} = \frac{600}{\text{Joint width (mm)} \times \text{joint depth (mm)}}$$

$$\text{Litres per metre run of joint} = \frac{\text{Joint width (mm)} \times \text{joint depth (mm)}}{1000}$$

STORAGE AND SHELF LIFE

1 year from date of production if stored in cool, dry conditions (+10°C - +25°C).

Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

Important Note

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

Please consult our Technical Sales Department for further information

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