

PRODUCT DATA SHEET

Sika® Concrete Crack Fix

Mix in the tube adhesive for high strength repairs to concrete.

PRODUCT DESCRIPTION

Sika® Concrete Crack Fix is a two-part cold cure, thixotropic structural adhesive based on epoxy resin. Just mix in the tube and use for high strength repairs to concrete.

USES

As a structural adhesive for:

- Concrete.
- Hard natural stone.
- Ceramics, fibre cement.
- Mortar, bricks, blocks, masonry, render, etc.
- Steel, iron and aluminium.
- Wood.
- Polyester and epoxy.
- Fixing and fastening of handrails, railings, balustrades and supports.
- Fixing of window and door frames.

For concrete repairs:

Interior, vertical and overhead repairs of:

- Corners and edges.
- Hole and void filling.
- Crack filling and sealing of non-moving joints.
- Joint arrises.
- Suitable for use on damp concrete.

Also suitable for injecting into cracks.

CHARACTERISTICS / ADVANTAGES

- Applied using a standard sealant gun.
- Can be used on damp concrete.
- Excellent adhesion.
- Non-sagging, can be used for overhead applications.
- High load capacity.
- Does not shrink on hardening.
- Styrene free.
- Two-part mix in the tube adhesive.
- Economic - use only as much as required.
- Can be applied in vertical and overhead situations.
- Resistant to water, chemicals and solvents.

Thermal expansion coefficient, EN1770 9.3×10^{-5} per °C (temp range 23 °C – 60 °C)

Thermal stability, EN12614 Heat deflection temp. 49 °C

Bond Strength

Time	Substrate	Bond Strength
After 3 days	Dry concrete	>5 N/mm ² *
After 3 days	Damp concrete	>5 N/mm ² *
After 3 days	Steel, blast cleaned	>10 N/mm ²
After 3 days	Dry brick	>1.5 N/mm ² **

*100% Concrete failure

**100% Brick failure

PRODUCT INFORMATION

Packaging	250 ml Cartridge.
Shelf Life	12 months from date of manufacture in original, unopened containers.
Storage Conditions	Store upright in original tightly sealed container in dry conditions, at temperatures 10 °C to 25 °C. Protect from direct sunlight.
Density	1.35 kg/l (A+B mixed)

TECHNICAL INFORMATION

Compressive Strength	~50 N/mm ² (14 days, 23 °C)
Flexural Strength	~20 N/mm ² (14 days, 23 °C)
Tensile Strength	10-15 N/mm ² (14 days, 23 °C)
Shrinkage	None

APPLICATION INFORMATION

Sag Flow	None, suitable for overhead application.
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VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LIMITATIONS

- Can be used with damp (not wet) substrates. Ensure there is no standing water during application and curing.
- Mortar and concrete must be older than 28 days.
- Adequate substrate strength must be confirmed prior to application.
- Ambient and substrate temperature must be between 10 °C and 35 °C.
- Apply at a maximum air humidity of 85% (at 25 °C).
- Avoid condensation during dew point conditions. Substrate temperature during application must be at least 3°C above dew point.
- Sika® Concrete Crack Fix is formulated to have low creep under permanent loading. However, due to the creep behavior of all polymeric materials under load, the long term structural design load must account for creep. Generally, the long term structural design load must be lower than 20-25% of the failure load. Please consult a structural engineer for load calculations for your specific application.

ECOLOGY, HEALTH AND SAFETY

Consult MSDS for full list of hazards.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

All substrates must be free from oil, grease and loose particles.

Concrete, natural stone, cement mortar and render:

Age of concrete must be 3 – 6 weeks.

Clean of oils, grease, dust and cement laitance.

Prepare with blast cleaning or grinding.

Construction steel 37, V2 A steel:

Clean of oils, grease, rust or mill scale.

Avoid dew point conditions.

Prepare surface with blast cleaning or grinding, and

prepare immediately prior to use with SIKA Primer

MB.

Polyester, epoxy, ceramics:

Clean of oils and grease.

Prepare surface with grinding – use a coarse abrasive

for polyester epoxy.

APPLICATION METHOD / TOOLS

Temperature range for application (ambient and substrate) must be 10 °C to 35 °C.

Prepare the cartridge by unscrewing the cap and then pulling out the plug. Screw on the static mixer nozzle and insert into cartridge gun. Pump gently until both components begin to come out evenly – do not use this initial material and wipe the nozzle clean before use.

Apply the adhesive and ensure that the fixing does not move during the curing time (see table below). Layer thickness must be 0.5 mm to 10 mm.

The static mixer nozzle can remain on the cartridge and re-used during short interruptions to work (up to 60 minutes – will vary with ambient conditions). If the resin hardens within the nozzle, then it will need to be replaced.

Curing Time

Temperature	Open Time	Curing Time*
10 °C	210 minutes	3 days
20 °C	90 minutes	2 days
35 °C	45 minutes	1 day

*To achieve 80% performance

CLEANING OF TOOLS

Wash tools immediately with Sika® Thinner C. Wash hands and skin thoroughly with warm, soapy water.

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

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 accordance with Sika's recommendations. 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 user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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