

SIKA CONCRETE CRACK FIX



| Colour | Product Code | Pack Size | Box Qty |
|--------|--------------|-----------|---------|
| GREY | SKCONCFIX | 250ml | 12 |

Product Description

SIKA CONCRETE CRACK FIX is a two-part cold cure, thixotropic structural adhesive based on epoxy resin. SIKA CONCRETE CRACK FIX is tested according to EN 1504-4.

Benefits

- 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

Areas For Use

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

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.
- SIKACONCRETE 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.

Surface 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. If prepared steel is not to be used immediately, the surface must be coated with Sikagard®-62 for protection.

Polyester, epoxy, ceramics:

Clean of oils and grease.

Prepare surface with grinding – use a coarse abrasive for polyester epoxy.

Application

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 0.5mm to 10mm.

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

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

Cleaning

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

Specific Data

| TEST | RESULT |
|---------------------------------------|--|
| Density | 1.35 kg/l (A+B mixed) |
| 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) |
| Thermal expansion coefficient, EN1770 | 9.3 x 10 ⁻⁵ per °C (temp range 23°C – 60°C) |
| Thermal stability, EN12614 | Heat deflection temp. 49°C |
| Shrinkage | None |
| Sag flow | None, suitable for overhead application |

Health & Safety

Consult MSDS for full list of hazards.

Storage

Store upright in original tightly sealed container in dry conditions, at temperatures 10°C to 35°C. Protect from direct sunlight.

Shelf Life

12 months from date of manufacture in original, unopened containers.

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