

STONFLEX® CR9

PRODUCT DESCRIPTION:

Stonflex CR9 is a two-component, fluoro-elastomeric joint sealer. Stonflex CR9 is used in conjunction with Pro-Struct 849 as a joint treatment system where maximum chemical resistance is required. Stonflex CR9 is a high performance material that exhibits exceptional chemical resistance to most acids, alkalies and solvents.

USES:

Stonflex CR9 is designed for use with Stonhard's chemical resistant lining systems where maximum chemical resistance is required. Pro-Struct 849 must be used to fill all joints prior to applying the Stonflex CR9.

PRODUCT ADVANTAGES:

- Long term chemical resistance
- Excellent bond strength assures good adhesion
- Bonds to many different substrates (concrete, masonry and many thermoset materials)
- Factory proportioned packaging ensures consistent, high quality mixing

PACKAGING & COVERAGE:

Stonflex CR9 is packaged as a 2 litre kit

Resin: 1.97 litres

Amine: 0.03 litres

2 Litres of Stonflex CR9 will cover approximately 2m² of surface at a nominal thickness of 1mm.

STORAGE CONDITIONS:

Store all components of Stonflex CR9 between 16°C to 29°C in a dry area. Avoid excessive heat and do not freeze. The shelf life is 3 years in the original, unopened container.

TYPICAL PROPERTIES AT 25°C

Colour	Charcoal
Hardness ASTM D2240, Shore A	70 to 80
Percent Elongation ASTM D638	200%
Stain & Colour Change ASTM C-510	None
Cure Rate at 25°C	5 to 6 Hours – Initial set 24 Hours – Light traffic 7 Days – Full cure
Pot Life	30 Minutes after mixing Working time may vary depending on ambient and surface conditions

NOTE: The above physical properties were measured in accordance with the referenced standards. Samples of the actual floor system, including binder and filler, were used as test specimens. All sample preparation and testing is conducted in a laboratory environment, values obtained on field applied materials may vary and certain test methods can only be conducted on lab made test coupons.

APPLICATION

MIXING:

Stonflex CR9 is supplied in pre-measured quantities. Empty amine into base tin. Mechanically mix using a slow speed drill (400 to 600 rpm) with a Jiffy Mixer for 2 to 3 minutes. Avoid high speed mixing that will entrain air bubbles. Thorough mixing of the two components is required.

NOTE: Do not start mixing until the substrate is properly prepared and dry, with the temperature of both the Stonflex CR9 and the substrate at least 16°C.

APPLICATION:

The joint or crack to be treated must be filled with Pro-Struct 849 prior to the application of Stonflex CR9. Pro-Struct 849 must be allowed to cure for a minimum of 12 hours at 21°C. Mix and apply Stonflex CR9 by brush over the crack at a thickness of 500 microns, 30mm either side of the crack.

Using pre-cut 50mm wide non-woven 110 to 120gm/m² geotextile fabric (pre-approved by StonCor Africa), centre the geotextile fabric lengthwise over the joint, firmly press and embed it into the Stonflex CR9 whilst still wet. Use a non-stick roller, squeegee or trowel to embed the geotextile fabric.

Apply a further coat, ensuring full saturation of the fabric. Allow to cure. Exposed fabric fibres or edges or other discontinuities shall not be accepted. Apply a further coat at 250µm.

For upstands and corners, a 30mm x 30mm fillet must be formed in the corner (contact your StonCor Africa Technical Service Representative for application requirements). The same procedure as above will then be followed of initial coat, embedding fabric and sealing with Stonflex CR9 from the floor over the fillet and up the vertical. Width of the fabric will be determined by site requirements or engineering details, but should be no less than 100mm on the floor and 100mm on the vertical. Clean equipment immediately after use with Thinner # 76.

CURING:

The surface of Stonflex CR9 will have an initial set in 5 to 6 hours at 25°C. The area may be put back into light traffic service in 24 hours. Ultimate physical characteristics will be achieved in 7 days.

RECOMMENDATIONS:

- Apply only on a clean, sound and properly prepared substrate.
- Minimum ambient and surface temperature is 16°C at the time of application.
- Do not use water or steam in the vicinity of the application. Moisture can seriously affect the working time and properties of the material.
- Application and curing times are dependent upon ambient and surface conditions. Consult StonCor Africa Technical Service Department for recommendations.

PRECAUTIONS:

- Avoid contact with amine and resin, as they may cause skin, respiratory and eye irritation.
- The use of NIOSH/MSHA approved respirators using an organic vapour / acid gas cartridge is mandatory.
- The selection of proper protective clothing and equipment will significantly reduce the risk of injury. Body covering apparel, safety goggles and impermeable gloves are highly recommended.
- In the event of accidental eye contact, rinse eyes immediately with water and seek medical attention.
- If material is ingested, immediately contact a physician. DO NOT INDUCE VOMITING.
- Use only with adequate ventilation. Inhalation of vapors may cause severe headaches, nausea and possibly unconsciousness.

SAFETY AND MISCELLANEOUS EQUIPMENT:

For tank lining work, it is recommended that the operator provide himself with clean coveralls and rubber soled shoes and observe good personal hygiene. Certain personnel may be sensitive to various types of resins which may cause dermatitis.

Thinner # 76 is recommended for clean-up of Stonflex CR9 amine or resin material spills. Use these materials only in strict accordance with the Manufacturer's recommended safety procedures. Dispose of waste materials in accordance with government regulations.