



Two-component Ultra Low Viscosity Epoxy for Sealing / Force Transmitting Structural Repair of Fine Cracks / Voids by Injection or Capillary Suction suitable for all Surfaces - Dry, Wet, Damp and Moist

General

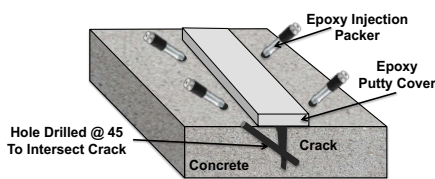
SS - CrackSeal EP is a two-component, colourless, transparent, solvent and filler free epoxy resin system for use in sealing or force transmitting structural repairs and strengthening of voids cracks in concrete or masonry. Due to its special formulation and additives, it has a very low viscosity and can be used for filling cracks greater than 0.2 mm in width. Since it is solvent free, it is ideal for application in a variety of conditions, including but not limited to high technology equipment rooms, precision machinery & computer rooms. **SS - CrackSeal EP** can be applied by simple brush treatment (capillary suction method) or by use of suitable one component pressure injection machines.

SS - CrackSeal EP is free from organic solvents and is low in VOC. It has excellent adhesion to concrete, steel and masonry. It is suitable for structural crack filling for concrete, brickwork and similar building materials. **SS - CrackSeal EP** is a highly durable fill material for dry to slightly damp (non-wet) cracks. This material can be used in accordance in EN 1504 Part 5: Force Transmitting filling of cracks. In case the substrate is dry or slightly damp, the material can also be used in waterproofing applications.

SS - CrackSeal EP does not show appreciable change in volume on hardening (i.e. no expansion or shrinkage).

Product Features

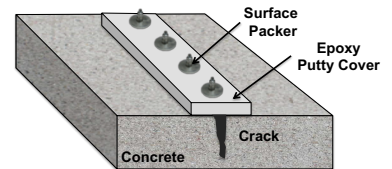
- Ultra Low Viscosity
- For Dry, Wet, Damp and Moist Surfaces
- Deep Penetration into injected substrates
- High adhesion to concrete, masonry and metals
- Very high compressive and tensile strength
- No appreciable volume change (expansion / shrinkage)
- Securely bonds crack faces to ensure seamless load transmission across crack faces
- Helps strengthen structures by ensuring seamless load transmission across the substrate
- Solvent Free, Low VOC
- Can seal cracks 0.2 mm and above



Injection Methodology: Drill Packers



Waterproofing



Injection Methodology: Surface Packer

Areas of Application

- Sealing surface cracks by brush application (capillary suction)
- Crack sealing by Injection into concrete substrates
- Crack sealing by Injection into concrete substrates
- Restoring load carrying capacity of substrates by enhancing load transmission across crack / void faces
- Precast Concrete Elements
- Bridge Structures and Foundations
- Wood
- Tiles and Natural Stone Joints and Cracks
- Structural Repair Strategies

Areas of Application

Specification Keywords

Ultra Low viscosity epoxy injection, solvent free, unfilled, structural strengthening, sealing, force transmitting injection, capillary suction, structural repair, waterproofing

Delivered As

Resin and Hardener

Storage Instructions

In Original Packing. In a cool dry place.

Shelf Life

12 Months from date of Manufacture.

Post Use

Use Complete Packs, Dispose packaging according to local regulations.

Packing Size

90 kg, 3 kg

Assess Build Chem Private Limited



Hazards and Safety



Technical Data at 23° C

Viscosity - Mixed	≈ 300 - 500 mPa.s
Sp. Gravity	1.10 ± 0.05
Compressive Strength	> 100 N/mm ²
Tensile Strength	> 25 N/mm ²
Mixing Ratio	2:1
Pot Life	≈ 45 minutes
Bond Strength	≈ 8 - 10 N/mm ²

Instructions for Use

Always test with a 24-hour cure time to determine consumption, ease of application and desired results. Surface temperature should be > 8°C. The substrate must be clean, dry and free from all loose particles, dust, oil and other materials having a separating effect. Clean out the cracks using pressurized air or water and allow to dry. For use, mix the resin component thoroughly and then add the hardener. Mix The two components thoroughly using a slow rotating electric drill and paddle until homogeneous. Empty the mixture is into a clean container and mix again to ensure homogenous mixing of the material. Only mix sufficient quantities for use within the pot life. The material can be applied by brush onto surface cracks or using a suitable 1 component pressure injection machine.

For surface sealing of cracks, simply brush the mixed material into the crack until it seems visibly filled. Continue the process till no more of **SS - CrackSeal EP** is penetrating into the surface. For injection process, prepare the crack and ensure it is clean and dry. Surface packers can be used for shallow cracks and borehole injection packers for deep cracks. For surface injection packers, place the packers over the crack face using a nail. Fasten the packers in place and seal the crack opening using a suitable epoxy putty. Inject the mixed resin into the packer, until rejection or overflow from the next packer. For drill packers, drill packer hole 12-14 mm or as per the packer size in a 45° intersecting the crack. Clean / flush the drill holes using compressed air and water if required. Allow to dry. Fix the packers firmly in place and seal the crack face using a suitable epoxy putty. Inject the mixed resin into the packer, until rejection or overflow from the next packer. The schematics for this are given on page 1.

Once the resin is cured, remove the packers and reprofile the substrate to meet finishing requirements. General Injection pressures can be 5-6 bars. Contact us in case further application advice is needed.

Safety and Precautions

- Take safety precautions at all times. Always wear protective goggles, safety shoes, masks and gloves.
- If inhaled, move immediately, to fresh air. In case of skin or eye contact, flush immediately with water for 15 minutes. Remove contaminated clothing and shoes and call a physician.
- Clean up promptly after job is complete. Clean equipment with water and allow to dry in a well-ventilated area. Allow rags etc. to dry in a well-ventilated area out of the reach of children and pets. Local, state and federal regulations should be consulted for proper disposal procedures.
- Higher temperatures considerably shorten the pot life. The material should not be left in direct sunlight. Keep tins closed when not in use to prevent unnecessary evaporation. On return to work the material should be thoroughly re-mixed. Material should not be applied at temperatures under +10°C or over 85% relative humidity, or when cracks are full of standing water.