

STRUCTRO 2K



Polyurethane based flexible low viscosity crack injection grout

DESCRIPTION

STRUCTRO 2K is a two part solvent-free, low viscosity high tensile strength polyurethane based system designed to form a strong permanent bond and seal in cracks in dry, damp or wet concrete and masonry.

Uses

- For injecting into cracks for, dry, damp or wet concrete or masonry. Especially as an underlay for poorly ventilated working areas.

- May be used to form bowl-shaped sealing layers around construction, since it adheres well to sand and concrete (wet or dry).

STRUCTRO 2K is designed as a permanent solution to seal and bond cracks in concrete and masonry. Crack widths of between 0.2mm and 10 mm can be treated depending on requirements.

ADVANTAGES

- Does not attack bitumen, sealing materials and foils modified with Bitumen or STYROPOR and PUR -Foam.
- Even underwater, it provides very effective sealing, bonds with the above sealing materials and sealing foils.
- Low viscosity allows penetration into fine cracks.
- Good adhesion to dry/wet substrates.
- High tensile strength, withstands high hydrostatic pressure.
- Displaces water optimally.
- Formulated to use in hot climates.
- Flexible to withstand differential movement.

TYPICAL PROPERTIES

Solid Contents (%) :	100.
Pot life @ 25 'C :	25 to 35 minutes.
Minimum Temperature for Hardening :	00 C.
Hardness Shore A :	60 + 5
Tensile Strength :	2.5 N/mm ² .
Extensibility (%) :	80.

DIRECTION FOR USE

Surface Preparations

Clean the surface and remove any dust, unsound or contaminated material, paint, grease, corrosion deposits or algae.

The surface should preferably be prepared using high pressure water jetting or light abrasive blasting, followed by thorough washing to remove dust and remaining particles.

Dirt alone may be removed with wire brush cleaning, detergent scrubbing or the use of an appropriate degreaser.

The effectiveness of decontamination can be accessed by a pull-off test. Blow the cracks and treated surface with oil free air to ensure complete removal of all dust and loose particles.

Ensure that the surfaces are blown dry.

Fixing Injection Packers

The Injection packers or injection nipples shall be inserted into pre drilled holes at intervals along the length of each crack. The distance between each packer will depend upon the width and depth of the crack.

Spacing shall be close enough to ensure that the resin will penetrate along the crack to the next point of injection.

The surface of the cracks between the packers shall be sealed with STRUCTRO 2K.

Both sides of any cracks which go all the way through a wall or slab shall be sealed in this way. Structro gel shall be allowed to cure for 8 hours at 35°C.

At low ambient temperatures (5°C to 12°C) the curing time will be extended and the applicator shall ensure that the surface sealant has adequately cured prior to continuing. One of the injection hose shall be attached to the lowest packer on vertical cracks or to either end of the horizontal cracks.

APPLICATION

Thoroughly mix the entire Part A and Part B contents for 3-5 minutes preferably by slow speed drill. For part mixes mix 1 vol. of Part B with 3 vol. of Part A.

STRUCTRO 2K can be used:

(a) With standard injection equipments with closed containers (pressure pots) capable of working at pressures up to 1 N/mm² (1 bar).

(b) With plastic or foil lined cartridges using a hand operated skeleton cartridge gun at low pressures. Following completion of the injection works the injection system shall be allowed to cure for 24 hours and shall be left undisturbed for this time.

For finishing: Remove any packers or nipples and make good any holes or void with STRUCTRO and allow to cure. STRUCTRO can be ground off with an angle grinder or softened with a blow lamp and peeled off. Do not allow to burn.

LIMITATIONS

It should not be used in the presence of running water.

PACKAGING

STRUCTRO 2K: 10 & 20 kg

PRECAUTIONS

Cleaning : Spillages should be absorbed with sand or earth etc. & disposed in accordance with local regulations.

STORAGE

Store in dry conditions up to 10°C to 25°C. PART A & PART B are sensitive to moisture.

For this reason the content of container once opened should be used immediately. Shelf life is One year for PART A & Six months for PART B in tightly closed original container under dry conditions.

Fire resistance: The product is non flammable but will burn in a fire. It and STRUCTRO 2K should be removed from tools, equipment and mixers with STRUCTRO 2K solvent immediately after use. Hardened material can only be removed mechanically.

HEALTH & SAFETY

It should not come in contact with skin and eyes or be swallowed. Avoid prolonged inhalation of the vapours. Some people are sensitive to isocyanates, therefore, protective gloves, goggles and barrier cream should be used.

Ensure adequate ventilation and if working in enclosed areas, suitable breathing apparatus should be used.

If mixed resin comes in contact with skin, it should be removed with a resin removing cream followed by washing with soap and water. Should accidental eye contamination occur with any of the above products, wash well with plenty of clean water and seek medical advice immediately.

If swallowed, seek medical attention immediately. DO NOT INDUCE VOMITING. Refer our safety data sheets before using this material.

TECHNICAL SERVICE

Chembond has established itself in various fields on the basis of its dependable technical service.

For this purpose, we maintain a well equipped laboratory for research & quality assurance of all products.

Our experienced personnel are always on call and would always be available for product demonstrations and product performance monitoring.

Limitation of Liability:

This information is based on our current level of knowledge. It is given in a good faith but it is not intended to guarantee any particular properties.

The users must satisfy themselves that there are no circumstances requiring additional information or precautions or the verification of details given herein.

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