

4/2: WestCHEM Grouting Systems

SOLVA STRONG[®]
RANGE OF
CONSTRUCTION CHEMICALS



LOW VISCOSITY EPOXY GROUT

Product:



20
Kg

10
Kg

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LOW VISCOSITY EPOXY GROUT

About Product

It is a two component, solvent-free, **Solva Strong Low Viscosity Injection liquid** that is based on epoxy resin with great strength.

Uses:

An injection resin that adheres well to dry stone, steel, concrete, mortar, and other porous materials. is used to fill and seal holes and gaps in structures such as civil engineering buildings, bridges, industrial and residential buildings, e.g. floors, columns, foundations, beams, walls, and water retention structures.

Advantages:

- 1: Low Viscosity.
- 2: Solvent free.
- 3: High adhesive strengths.
- 4: Suitable for arid environments.
- 5: Hardening without shrinkage.
- 6: Suitable for use at low temperatures.

Chemical Base	Epoxy Resin
Packaging	Part A – 20Kg (Resin) Part B – 10Kg (Hardener)
Colour	Part A: colourless Part B: brownish yellow Part A+B mixed: yellowish-brownish
Shelf Life	12 months from date of production
Storage Conditions	Store properly in unopened, undamaged and sealed original packaging, in dry conditions at temperatures between +5°C and +40°C.
Density	Mixed Density: 1.13 kg/l (at +27°C)
Viscosity	~ 250 mPa s at +30°C

Compressive Strength	(According to ASTM C-579)	
	Curing Time	+30°C
	1 day	> 40 N/mm ²
	7 days	> 55 N/mm ²
	14 days	> 55 N/mm ²
Tensile Strength	> 35 N/mm ² (after 7 days at +30°C) (According to ISO 527)	
Consumption	1.14 kg of Low Viscosity Epoxy Grout is ~ equal to 1 l injection resin.	
Substrate Temperature	+10°C min. / +40°C max.	
Substrate Moisture Content	Dry Condition	
Pot Life	100 g mass	
	Temperature	Time
	+30°C	~ 30 min

Substrate Preparation:

Sound, clean, free from oil and grease and surface treatments etc.

Pre-treatment for a strong bond:

Concrete, mortar, and stone should be completely prepared using high-pressure water jetting or mechanical methods such as grinding, chiselling, and so on. Dust must be removed from cracks using compressed air.

Mixing:

Part A: Part B = 20: 10 (by weight)

Pre-Batched Packing:

Part B should be added to Part A. Mix on low speed (maximum 250 rpm) for at least 3 minutes using an electric mixer. Avoid the entrainment of air.



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Bulk Packaging:

Add both materials in the exact proportions to a suitable clean, dry container and mix as for the pre-batch units.

The treated surface must be structurally sound and free of standing water, oil, grease, and surface contaminants.

The surface should be free from dirt, dust, oil grease, and other foreign material.

Crack impregnation on horizontal slabs:

Impregnation is applied with a paint brush or roller until the substrate is completely saturated. Pouring mixed Low Viscosity Epoxy Grout (Solva Strong) in the cracks seals cracks. Cracks to be sealed with thixotropic epoxy putty from the negative side of the horizontal surface. Cracked injection on horizontal/vertical slabs injection Packer/nipples are fitted along the crack line at a 150-250 c/c distance. Thixotropic epoxy putty should be used to close the crack mouth.

Injection pumps or Hand Pumps can be used to inject mixed Solva strong Low Viscosity Epoxy Grout under pressure through injection ports. When injection resin flows from the next injection port, the first one is shut and the injection process is restarted from the next port. For horizontal cracks, the injection should begin at any of the ends and continue until the final port is utilised. Injection should begin at the lowest port and go higher for vertical cracks. The injection ports, as well as the sealing materials between the ports, are removed once the injection procedure is completed.

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