

EPIGROUT LV

LOW VISCOSITY CRACK INJECTION EPOXY GROUT

DESCRIPTION

Epigrout LV is a low viscosity epoxy grout based on specially selected epoxy resins and hardeners to produce a highly fluid grout for injection into cracks in masonry and concrete.

ADVANTAGES

- Low viscosity
- High strength
- Easy application
- Excellent adhesion
- Convenient mix ratio

APPLICATION INSTRUCTIONS

Preparation

All contacted surfaces must be free of oil, grease or other contamination which may inhibit bond. Any loose concrete should be removed and repaired to provide a solid foundation. Rake out all cracks to allow the grout to penetrate. Oil free compressed air will remove the fine dust which blocks small cracks.

Mixing

Epigrout LV is suitable for mixing using a drill and suitable paddle, or metering pump where a large quantity is required. Mix for 3 to 5 minutes to ensure thorough mixing. Only mix that quantity of material that can be used within the setting time.

Where the Epigrout LV is mixed in the 300m1 kit, add all the hardener to the base component bottle, reseal, and shake vigorously to mix. Do not attempt to rework or retemper any partially set product. Avoid waste by using all the kit within 15 minutes of mixing. NB: Liquid epoxy grouts will exotherm and set prematurely if not used immediately.

APPLICATION

Application by Gravity:

This method is only suitable for repair to floor slabs or other horizontal surfaces. Use Silicone sealant or other easily removed material to form a weir either side of the cracks to provide a reservoir for the grout, Place the mixed Epigrout LV in the reservoir and maintain the level of liquid by topping up the grout. When the crack is saturated, allow the grout to gel before removing the excess and weir with a scraper. NB: Hardened grout can only be removed by grinding.

Application by Pump:

Prepare the cracks to be grouted by bonding the injection ports over the crack using XL Set 621. Spread a thin layer of XL Set 621 over the cracks to be grouted and allow to set over night. Set the mix ratio of the pump to 2 to 1 by volume. Pour the individual components of the Epigrout LV into the respective tanks for the base and hardener. NB: Ensure the tanks are clearly identified to avoid mixing base and hardener together. Commence grouting by pumping from the lowest placed injection port. Continue pumping until the Epigrout LV appears at the next port.

Seal off the first port and continue pumping from the second port. Ensure that the operation is completed in one continuous pour. Allow the grout to harden before grinding off the injection ports and epoxy.

STRENGTH	
TEST	Strength(MPa)
Tensile Strength	14MPa
Compressive Strength	70MPa
Flexural Strength	24MPa

CHEMICAL RESISTANCE *	
Chemical	Resistance
Citric Acid 100%	Excellent
Acetic Acid 5%	Excellent
Sodium Hydroxide 30%	Excellent
Diesel fuel/ petrol	Excellent
Sugar Solutions	Very Good
Tartaric Acid 100%	Very Good
Hydrocarbons	Very Good
Phosphoric Acid	Very Good

* Resistant to spillage. Surface staining may result from exposure to some aggressive chemicals. All spills should be quickly removed and washed. Over exposure may result in surface degradation.

EPIGROUT LV

TYPICAL PROPERTIES	
Viscosity	350cps
Appearance	Part A: Clear flowable liquid. Part B: Clear Amber flowable liquid
Specific Gravity	1.05Kg/Lt
Solid Content	100%
Flammability	Non Flammable (no solvent)
Chemical Resistance	Excellent (see chart)
Tensile Strength	45MPa
Heat Distortion Temp	90°C approx.
Pot Life	25-35min@25°C
Compressive Strength	100MPa
Water Absorption*	<0.20% (10 days @ 25°C)
Flexural Strength	50MPa approx.
Tensile Bond Strength	15MPa approx.
Modulus of elasticity	Approx. 11 x 10 ³ MPa
Service Temp	-20°C to - 70°C
Hardness	>80 shore D
* Tested to ASTM D570	

ESTIMATING

Packaging

EpigROUT LV is supplied in ready to use 300ml kits, as well as 1.5, 6, and 30 litre kits.

STORAGE

EpigROUT LV is an epoxy based product which must be stored in the original unopened containers.

PRECAUTIONS

Where temperatures less than 5°C or greater than 35°C are encountered, contact our Technical Staff for specific advice. EpigROUT LV is non toxic, but it is alkaline in nature. Any contact with eyes or skin should be washed off with soap and clean water, NOT solvent. Protective gloves, goggles and clothing should be worn. Repeated contact with epoxy resins and hardeners can cause sensitization in some people handling this type of product. Where this occurs seek medical advice before continuing use.

NOTE

Safety data sheets for these and all AFTEK products are available on request. Read the SDS and product label carefully before using. All reasonable care is taken in the compilation of this data sheet. All recommendations regarding use are made without guarantee as the conditions of use are beyond the control of the manufacturer.

ALLIED PRODUCTS

Aftek manufactures a broad range of construction products including:

- Grouts
- Coatings
- Admixtures
- Adhesives
- Sealants
- Floor Toppings
- Floor Levelling Compounds
- Concrete Repair



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The information and any recommendations relating to the application and end-use of all AFTEK products are provided in good faith based on AFTEK's knowledge and experience of the products. In applications, the differences in materials, and variances of substrates and actual site conditions can vary such that no warranty in respect of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be taken as inferred either from this information, or from any written recommendations, or from any other advice offered by AFTEK. The proprietary rights of third parties must be observed. All orders are accepted subject to our sale terms and conditions. All users should always refer to the most recent and up to date issue of the Technical Data Sheet for the product concerned, which is available on request. It is recommended that products should always be properly stored, handled and applied under tested and recommended conditions.