

X-Tite InjectionGrout EP

Epoxy injection and flowable grout

Product Description

X-Tite InjectionGrout EP is a pure epoxy resin grout used to grout and inject gaps from 0.2mm to 15mm.

Composition

X-Tite InjectionGrout EP is a solvent free pure epoxy resin.

Advantages

- Low viscosity
- Resistant to dynamic loading
- Non-shrink maximizes contact area
- High strength
- Early strength gain
- Chemically resistant

Typical Uses

- Crack injection of concrete structures
- Sealing of cracks and crazing
- Thin gap base plate grouting
- Anchoring of small diameter rebar and studs

Specification Compliance

ASTM C881 Type I and IV, Grade I, Class C

Laboratory Test Data

Property	Typical Results		
	24 hrs	3 days	7 days
Compressive Strength (ASTM C109)	60MPa	65MPa	85MPa
Tensile Strength (ASTM C307)	-	-	50MPa
Flexural Strength (ASTM C580)	-	-	60MPa

Application Properties

Application Temperature	5 to 40C		
Minimum Thickness	0.2mm		
Maximum Thickness	15mm		
Pot Life	20C 60 min	30C 30 min	40C 15 min
Mixed Viscosity	<200 cps		

Volatile Organic Content

VOC = <10g/L

Chemical Resistance

X-Tite InjectionGrout EP is resistant to mild acids, alkalis, oils, greases, fresh and sea water and most common chemicals.

Packaging

1 Kg.

Can be supplied in bulk if required.

Shelf Life

18 months when stored below 35C under shade in a dry environment.

Installation Guidelines

Resin injection and grouting is a specialized operation that should only be performed by experienced contractors. X-Calibur provides detailed method statements on all its products for use in various applications. These must be referred to prior to starting work. The information below is a summary intended for guidance only.

Mixing

Add the hardener 'Part B' to the base 'Part A' and mix using a slow speed drill (500rpm) with an X-Shield Coating Mixer Paddle for 2 to 3 minutes or until both components have fully dispersed and are uniform in color. Be sure to rotate the mixer throughout the can. Mix only full packs.

Resin Injection

Fix injection packers into pre-drilled holes. Seal the surface of the crack with X-Tite StrongBond and allow to cure for at least 12 hours (longer if temperature is less than 25C). The spacing between each packer will depend on the width and depth of the crack. Spacing should be close enough to ensure maximum penetration of the mixed resin and to allow the resin to flow easily to the next packer. Inject using a proprietary injection pump with a minimum injection pressure of 4 bar. Allow to cure for 24 hours. The X-Tite StrongBond can then be removed by grinding or using a heated scraper.

Resin Grouting

All substrates should be sound free from oils and greases, and dry. Concrete surfaces must be scabbled or grit blasted to a sound base. Dust and debris must be removed. Steel surfaces, particularly the underside of base plates, should be grit blasted whenever possible to clean bright metal. Form work must be tight. The mixed material should be poured at uniform rate from one side only. Pouring should be continuous to avoid entrapment of air. Good planning is essential to ensure sufficient material is available to complete the pour.

Cleaning

Tools should be cleaned immediately after use with X-Shield Solvent S. Cured resin can only be removed mechanically.

Limitations

Will not accommodate movement cracks.
Do not apply below 5C.
Avoid skin contact.
Do not discard into the water system.

Health and Safety

This product is for industrial use only by trained operatives. It is potentially hazardous if not used correctly. Please refer to the Material Safety Data Sheet (MSDS) prior to the purchase and use of this product. The MSDS can be obtained via our website www.ncc.com.eg

Authorized Technical Specialist

Please note that only NCC X-Calibur Authorized Technical Specialists ('ATSS') are permitted to change any of the information in this data sheet or to provide written recommendations concerning the use of this product. Visit www.ncc.com.eg for a full list of NCC X-Calibur ATSS.

Datasheet Validity

NCC X-Calibur makes modifications to its product datasheets on a continuous basis. Please check the datasheet update section on www.ncc.com.eg to ensure you have the latest version.

Warranties

NCC X-Calibur supplies products that comply with the properties shown on the current datasheets. In the unlikely event that products supplied are proved not to comply with these properties, then we will replace the non-compliant product or refund the purchase price. NCC X-Calibur does not warrant or guarantee the installation of the products as it does not have control over the installation or end use of the products. Any suspected defects must be reported to NCC X-Calibur in writing within five working days of being detected. NCC X-Calibur Construction Chemistry Inc. **makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties express or implied.** NCC X-Calibur Construction Chemistry Inc. shall not be liable for damages of any sort including remote or consequential damages, down time, or delay.