

3 COMPONENT POURABLE MULTIPURPOSE UNDERWATER EPOXY GROUT

DESCRIPTION

A three component pourable epoxy grout based on a high grade epoxy resin and specially graded aggregates. On mixing a flowable grout is produced for use in heavy engineering and difficult conditions. It may be used as neat or in conjunction with fillers.

USES & ADVANTAGES

Condur UEG is a high strength epoxy grout with no shrinkage and is suitable for many grouting applications such as marine pile repair and restoration. Offers very good corrosion protection for concrete, steel, wood, etc.

Advantages include:-

- Chemical resistance.
- Solvent free & non flammable.
- Rapid shrinkage free hardening.
- High mechanical strength.
- Good impact and vibration resistant.
- High adjustable flow.
- Good bonding to most substrates.
- Long pot life for big pours and deep pours.
- Low exotherm.
- Pumpable & pourable grout.

PROPERTIES

Appearance:	Part A - Turbid thick liquid. Part B - Clear liquid. Part C - Filler.
Colour:	Black (when mixed)
Mixed density (kg/ltr):	2.10 ± 0.05
Consistency:	Pourable
Working time:	60 mins.
Compressive Strength (ASTM C579)	
1 day :	≥ 30 N/mm ²
3 days :	≥ 70 N/mm ²
7 days :	≥ 80 N/mm ²
Flexural Strength:	7 days ≥ 25 N/mm ²
ASTM C580	
Tensile Strength:	7 days ≥ 10 N/mm ²
ASTM D638	
Bond Strength:	7 days ≥ 2 N/mm ²
ASTM D4541	(concrete failure)
Yield:	2100 kg/m ³
Application Temperature:	10 °C to 40 °C
Service Temperature:	5 °C to 60 °C
Creep (ASTM C1181)	0.6%
Linear Shrinkage :	Negligible
(ASTM D 2556)	
Thermal Expansion Coefficient:	
(ASTM C 531)	3.21 x 10 ⁻⁵ mm/mm/°C
Effective Bearing Area:	≥ 75%
(ASTM C 1339)	
Shrinkage Unrestrained :	Negligible
(ASTM C 531)	
E-Modulus:	16000 N/mm ²
(ASTM C 580)	

Water Absorption Coefficient @ 7days:

(ASTM C413) NIL
Grouting Thickness Min : 10 mm.
 Max : 100 mm.

Chemical resistance: Excellent most chemicals
 (ASTM D543)

Note:

- The above data is typical under laboratory conditions at 25°C and does not constitute a specification. Field trials are recommended.
- The working time starts when the hardener is added to the resin material. Do not let the resin and hardener stand still without adding aggregates which may result in shorter working time. Working time will vary depending on the temperature and the quantity mixed. To get the optimum working time keep the material shaded and in a cool place.

SUBSTRATE PREPARATION

All surfaces to be in contact with Condur UEG shall be free of marine growth, oil, grease, laitance, and other contaminants. Concrete must be clean, sound, and roughend to ensure a good bond.

MIXING

- For optimum performance, all components should be conditioned to between 65°F and 85°F (18°C and 29°C) prior to use.
- Pour all component B (hardener) into pail containing component A (resin).
- Mix thoroughly by hand with a paddle or with a slow speed drill and paddle mixer to avoid air entrapment.
- While mixing, slowly add component C and mix only until the mixture becomes homogenous.
- Do not mix more material that cannot be placed in 45 minutes.

METHODS OF PLACEMENT

Condur UEG may be pumped or poured into place. For vertical flow applications simply pour or pump from the top of the opening, or pump into ports. For horizontal applications, pour or pump from one side to the other. Tremie method are best suited to provide a suitable pressure head & rapid displacement of water.

POST PLACEMENT PROCEDURES

In-service operation may begin immediately after minimum required grout strength and modulus have been achieved.

CLEANING

Use a solvent or water and strong detergent solution on tools and equipment before material hardens.

PACKAGING

A+B+C 10 & 25 kg. Pre-measured sets or larger packaging upon request.

3 COMPONENT POURABLE MULTIPURPOSE UNDERWATER EPOXY GROUT**STORAGE & SHELF LIFE**

Store in dry conditions between 5°C - 30°C. The shelf life is 12 months when unopened and stored correctly.

HEALTH & SAFETY

Avoid contact with skin and eyes and avoid breathing vapour. Use only in well ventilated areas away from heat sparks or naked flame. Wear suitable protective clothing, gloves and eye protection when mixing or using. If poisoning occurs, contact a doctor or Poisons Information Centre. If swallowed, **do NOT** induce vomiting give a glass of water. If in eyes, hold eyes open, flush with water for at least 15 minutes and see a doctor. If skin contact occurs, remove contaminated clothing and wash skin thoroughly with soap and water.

TECHNICAL SERVICE

The Cormix International Technical Service Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

QUALITY ASSURANCE

ISO 9001 : 2015 verified by TUV Nord.

ISO 14001 : 2015 verified by Lloyd's Register International.

DISCLAIMER

Performance data is achieved testing in accordance with International Standards. Testing by others may result in different results from those published as a result of external factors such as poor sampling, incorrect mixing, varying temperatures, curing, crushing procedures etc. Cormix does not take responsibility nor need to defend others testing that does not achieve the published data. The user must test the products suitability for the intended application and purpose. Cormix reserves the right to change the properties of the product. Site conditions and differences in materials are such that no warranty or fitness for a particular purpose, nor liability can be inferred from the published data sheet, written recommendations or from other advise offered.

CONTACT DETAILS**Cormix International Limited**

89 Romklao Rd., Sansab, Minburi, Bangkok 10510

Tel. (66 2) 917 3955-8

Website: <http://www.cormix.com>

Email Address: info@cormix.com