

# Condur® UEG2

## A TWO COMPONENT UNDERWATER EPOXY GROUT

### DESCRIPTION

Condur UEG2 is a two part 100% solids moisture tolerant epoxy grout especially formulated for marine remediation projects such as concrete, timber and steel pile restoration.

It can be used above or below the water line.

### USES & ADVANTAGES

Condur UEG2 is a high strength epoxy grout with no shrinkage developed for ease of installation specifically in marine pile, piers, jetties and walls rehabilitation applications.

It offers excellent corrosion protection to concrete, steel and timber.

#### Advantages include:-

- 2 part giving better quality control during mixing and reduced bubble entrainment.
- Excellent anti washout characteristics.
- Solvent free and non-flammable.
- Pumpable and pourable grout.
- Excellent resistance to chemicals and aggressive waters.
- Long working time up to 75 - 90 minutes at 25°C.
- High mechanical and ultimate strengths.

### PROPERTIES

**Components :** 2 (Base & Hardener)

**Form :** Flowable

**Appearance :** Black (when mixed)

**Mixed Density (kg/ltr) :** Approx. 2.00

**Working Time :** 75-90 mins.

**Compressive Strength :** > 55 N/mm<sup>2</sup> at 1 day  
> 90 N/mm<sup>2</sup> at 7 days

**Flexural Strength :** > 25 N/mm<sup>2</sup> at 7 days  
(ASTM C 580)

**Tensile Strength :** > 12 N/mm<sup>2</sup> at 7 days  
(ASTM D 638)

**Bond Strength :** > 14 N/mm<sup>2</sup> at 7 days  
(ASTM C882)

**Application Temperature:** 10 °C to 40 °C  
> 0 °C to < 10 °C  
(Condition the material before use)

**Service Temperature:** - 40 °C to 100 °C

**Creep (ASTM C1181):** 0.70%

**Shrinkage Unrestrained:** Negligible  
(ASTM C 531)

**Water Absorption Coefficient @ 7days:**  
(ASTM C 413) NIL

**Grouting Thickness** Min : 10 mm.  
Max : 300 mm.

**Chemical resistance :** Excellent to most chemicals  
(ASTM D543)

#### Note:

- The above data is typical @25°C under laboratory conditions and does not constitute a specification. Field trials are recommended.
- The working time starts when the hardener is added to the base material.  
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 UEG2 shall be free of marine growth, oil, grease, laitance, rust and other contaminants. Concrete must be clean, sound, and roughened to ensure a good bond. High pressure water blast, sand blast or shot blast to remove any potential contaminants.

### MIXING

Before mixing ensure components have been stored correctly. Pour the contents of Part B into Part A and mix with a slow speed mixer for at least 3 minutes until a flowing uniform grout is achieved. Avoid excessive mixing that may entrain air.

### METHODS OF PLACEMENT

Condur UEG2 may be poured or pumped into place, the material is self-compacting. If pumping check the equipment is suitable for pumping epoxy grouts. The epoxy grout shall first be pumped through the lowest injection port moving upwards with the preceding port being sealed off the procedure is continued until the top of the form /jacket is reached. The pumping and injection shall be continuous until the form is completely filled. Tremie methods are best suited to provide a suitable pressure head and rapid displacement of water. The tremie hose should be slowly retracted as the grout is poured.

### POST PLACEMENT PROCEDURES

In-service operation may begin immediately after the 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 = 14.50 litres set or 29 kg set. Pre-measured sets or larger packaging upon request.

### 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.

**Condur® UEG2****A TWO COMPONENT UNDERWATER EPOXY GROUT****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 advice offered.

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