Condur® EGHES(M)

A 3 COMPONENT HIGH EARLY STRENGTH, TEMPERATURE RESISTANT EPOXY GROUT

DESCRIPTION

A solvent free 3 component high early strength epoxy grout which when mixed produces a pourable material with excellent adhesion to concrete & steel surfaces.

USES & ADVANTAGES

Condur EGHES(M) is a high early strength epoxy grout produced for speedy and permanent patching repairs of concrete surfaces including small honeycombs, surface defects, blow holes and minor damage in roads, bridge decks, runways and precast slab tracks.

Advantages include:-

- High early strength.
- Fuel and chemical resistance.
- Fast setting.
- Shrinkage free hardening.
- Rapid hardening.
- High mechanical strength.
- Abrasion & Impact resistant.
- Vibration resistant.
- Strong bond to metal & concrete.

PROPERTIES

Components:	3 (Base, Hardener & Filler)
Form:	Pourable
Appearance:	Grey (when mixed)
Mixed Density (kg/ltr):	2.28 ± 0.05
Pot Life:	< 10 mins @30°C
	< 15 mins @25°C
	< 30 mins @15°C
Compressive Strength @ 30°C:	
ASTM C579, Method B	
1 hrs:	≥ 35 N/mm²
2 hrs:	≥ 50 N/mm²
3 hrs:	≥ 75 N/mm²
1 day:	≥ 80 N/mm²
7 days:	≥ 90 N/mm²
Chemical resistance	(ASTM D543):
Citric Acid 10%	Excellent
Tartaric Acid 10%	Excellent
Acetic Acid 5%	Satisfactory
Sodium Hydroxide 50%	Excellent
Diesel Fuel / Petrol	Very good
Sugar Solutions	Very good
Lactic Acid	Very good
Hydrocarbons	Very good
Phosphoric Acid 50%	Very good
Application Temperature:	5°C to 40°C
Service Temperature:	-20°C to 100°C
Thickness	Min : 10 mm.
	Max : 50 mm

Note:

- *The above data is typical under laboratory conditions 30°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.*
- *Strengths are typical of standard mix ratios.*
- *To obtain performance characteristics stated in this data sheet, the mixing ratio must be maintained.*

CHEMICAL RESISTANCE

Condur EGHES(M) resists non oxidizing mineral acids and salts, caustics, dilute oxidising acids and salts, plus some organic acids and solvents. Please refer to Cormix International Ltd. for more information.

MIX RATIO

Part A : Part B : Part C = 2.8 : 1.2 : 17 by weight.

SUBSTRATE PREPARATION

Surface preparation is important. All surfaces should be dry, clean, free from standing water, grease, curing compounds, mould oils and all loosely adhering particles. Cement laitance should be removed by mechanical means. Roughen surfaces with chipping to ensure good bonding. Steel surfaces should be grit blasted to white metal. Concrete surfaces should be chipped so as to expose aggregates to ensure laitance and weak particles are removed.

MIXING

Mix component Part A and Part B thoroughly with a slow speed drill for 2 minutes. (Max 400 R.P.M.) Then add Part C and mix for 3 minutes until a homogeneous mortar is achieved.

Note : at low temperatures below 10°C, Condition the product @ 20-25°C prior to mixing.

APPLICATION

Pour the material and trowel firmly into place. For large volumes apply in layers ensuring the previous layers have hardened and cooled. Contact Cormix International Ltd. for advise on difficult applications.

If repairing in multiple layers, it is necessary to sprinkle a small amount of 2.5 mm aggregate over the first layer before the grout reaches its setting time. Before placement of 2nd layer brush out loose aggregates from the 1st pour. Another method is to scrabble gently the top surface and make it rough when grout reaches near to its setting time.

FINISHING

A smooth finish may be achieved before the grout reaches its setting time by spraying or brushing the surface with xylene, white spirit or epoxy grade thinner and then by using the steel trowel or wooden trowel level the surface.

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CURING

- Cure time will depend on the ambient and substrate temperature.
- Setting time : < 20 Minutes 30^{0}C
  < 30 Minutes @ 25^{0}C
  < 60 Minutes @ 15^{0}C
  Trafficable time : 45 minutes 30^{0}C
  1 hour @ 25^{0}C
  2 hours @15^{0}C
- Protect the repair area by insulation, during the curing time from the elements particularly during cold, wet or very hot conditions.
- For cold weather grouting please contact Cormix Technical Department for assistance.

CLEANING

Clean all tools and equipment immediately with Cormix Cleaner.

IMPORTANT NOTES / SPECIFICATION CLAUSES

The minimum and maximum substrate application temperature should be 5ºC and 35ºC respectively. Maintain patch repair dimensions @ Length < 500 mm, Width < 300 mm & Depth < 50 mm. For additional information contact Cormix International Technical Service Department.

PACKAGING

A+B+C = 21 kg. (Part A = 2.8 kg, Part B = 1.2 kg and Part C = 17 kg) premeasured sets or larger packaging is available upon request.

STORAGE & SHELFLIFE

Store in dry conditions between +5 - 35ºC. The shelf life is 12 months when stored correctly in unopened original containers.

HEALTH & SAFETY

Avoid contact with skin and eyes and avoid breathing vapor. 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 advice offered.

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Rev.001 Oct 2026