

DESCRIPTION

Condur ARP is an elastomeric concrete for use in highways, taxiways and bridge repairs and for expansion joint assembly anchoring.

USES & ADVANTAGES

An easy to use flexible, durable and impact resistant elastomeric concrete. Primary uses include grouting of expansion joint assembly to fill blockouts each side of the expansion joint gap, it acts to lock the flanges of the expansion joint to the deck while adhering tenaciously to the concrete creating a watertight seal. It is used to repair damaged expansion joints or as a very fast curing repair mortar for potholes or spalls on highways, parking surfaces, bridge decks, taxiways and runways.

Advantages include:-

- Excellent adhesion to steel and concrete.
- Can be easily installed with early strength gain & flexibility.
- Can accept traffic in approx. one hour.
- Fully cured material is resistant to changes in temperature.
- Use as a pourable sealant in expansion joints.
- Withstands heavy loading.
- Resistant to chemicals & fuel oils.
- Can cut & grind within an hour.
- Impact absorbing.
- Sound dampening.
- No VOCs.
- Self levelling.

PROPERTIES

Specific Gravity @25°C :	Approx. 1.8 kg/litre
Final Setting Time @25°C :	Approx. 60 min.
Rheological Properties : (Immediately after mixing)	Self-Leveling.
Tensile Strength : ASTM D638	> 5 MPa.
Elongation at Break : ASTM D638	> 50 %
Shore D Hardness : (Full Cure) ASTM D2240	Approx.55-60
Impact Resistance : ASTM D3029	No crack or breaks observed.
Abrasion Test :	139 Mg/1000 cycles
Compressive Strength : 7 Days @25°C ASTM C579	7.5 - 12 N/mm ²
Trafficable at 25°C :	Approx. 1 hour.
Full Cure Time at 25°C :	7 Days
Adhesion Bond Strength : to Concrete @ 7 Days ASTM D4541	3.2 N/mm ²

Chemical Resistance :
ASTM D543

Dilute sulphuric acid
Dilute NaOH solution
Sea water
Chlorine water
Waste water
Glycerine
Soap solution
Fuels & oils

Note : For more information details on chemical resistance contact Cormix International Limited.

Note: Condur ARP is moisture sensitive. Part A & B must be premixed before adding Part C.

In case of unexpected rainfall conditions, ensure that the applied product has already reached its final setting time, before actual rainfall occurs.

Do not apply the product below 7°C. Temperature should be 7°C & rising.

Wet & damp conditions: prime with **Condur EA1**

PERFORMANCE PROPERTIES

It is very important to compare the data of the fully mixed material. Resin data is irrelevant as the material is always used with aggregate.

Adding aggregates increase strength at the expense of flexibility and brittleness. Heavy aggregate loadings reduces cost at the expense of performance. To ensure performance is maintained **Condur Rail Fix** is supplied in three parts in pre measured units.

CONSUMPTION

Approx. 79-81 sets of **Condur ARP** will yield 1 cubic metre of concrete.

SUBSTRATE PREPARATION

Ensure no moisture is present in the substrate. Hot air blasting can be used to remove excess moisture from the substrate. In the case of repairs cut out all damaged spalled concrete to leave a clean, dust free, dry, exposed aggregate surface, ensure there is no contamination.

The edges of the repair must be cut at right angles the full depth of the repair. New concrete should be at least 14 days old, clean, free of contaminants such as oil, grease, curing compound or other materials that interfere with adhesion. No primer is required when the concrete surface is prepared clean and roughened.

In the case where additional bonding to the substrate is required, primer is available upon request.

For wet & damp conditions prime with **Condur EA1**. Allow to dry for approx. 30 minutes to 2 hrs.

MIXING & APPLICATION**STEP-1: MIXING PART A & B**

Premix "Part A" & "Part B" for approx. 2-3 minutes using high speed drill mixer (or) paddle mixer having ribbon blades until a uniform homogenous mixture is achieved.

STEP-2: FILLER ADDITION TO PART A & B

Add preweighed aggregates of "Part C" slowly with continuous mixing to premixed resin-hardener mixture for approx. 2 minutes until a uniform homogenous mixture is obtained.

Note: Do not add all Part C at once.

STEP-3: PLACING OF CONDUR ARP

Pour the homogenous mixture of **Condur ARP**, immediately into the repair area.

The poured material is self levelling.

STEP-4: CURING & FINISHING

The poured material will initially cure within 5-10 minutes, providing smooth surface finish.

Notched trowel can be used after initial cure time, to trowel the applied product & get antiskid surface finish.

The applied product reaches its final setting time in approx. 1 hour & then accept traffic.

CLEAN UP

Use xylene to clean equipment.

PACKAGING

23 kg set.

(Part A= 6 kg. Part B= 2 kg and Part C = 15 kg.)

23 kg set = 12.78 litres.

STORAGE & SHELF LIFE

Do not allow to freeze. Store in a dry shaded area between 10-35 °C in original unopened containers. The shelf life is 12 months when stored correctly in the original unopened containers.

HEALTH & SAFETY

Wear protective clothing, goggles & gloves. If in contact with eyes wash out immediately with water & seek medical attention. Fatal if taken internally.

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.

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