

## Condur® ARP

### POLYURETHANE ELASTOMERIC GROUT

#### DESCRIPTION

Condur ARP is a flexible polyurethane very rapid setting grout/ concrete with various applications both in new and repair works.

#### USES & ADVANTAGES

Uses include in the installation of both new and replacement expansion joints, very rapid highway, taxiway, car park and industrial facilities joints and surface repairs. For the fixing of grooved or T rails onto concrete slabs and road crossings.

#### Advantages include:-

- Excellent adhesion to steel and concrete.
- It easily installed with very 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.
- Good impact resistance.
- Self levelling.
- Good dampening and vibration reduction.

#### PROPERTIES

Specific Gravity @25°C :	Approx. 1.8 kg/litre
Final Setting Time @25°C :	Approx. 60 min.
Volume Resistivity :	8 x 10 <sup>12</sup> ohm.m.
(Immediately after mixing)	
Tensile Strength :	> 5 MPa.
ASTM D638	
Elongation at Break :	> 50 %
ASTM D638	
Shore D Hardness :	Approx.55-60
(Full Cure)	
ASTM D2240	
Impact Resistance :	No crack or breaks observed.
ASTM D3029	
Abrasion Test :	139 Mg/1000 cycles
Compressive Strength :	
7 Days @25°C	7.5 - 12 N/mm <sup>2</sup>
ASTM C579	
Trafficable at 25°C :	Approx. 1 hour.
Full Cure Time at 25°C :	7 Days
Adhesion Bond Strength :	3.2 N/mm <sup>2</sup>
to Concrete @ 7 Days	
ASTM D4541	
Chemical Resistance :	Dilute sulphuric acid
ASTM D543	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 condition: prime with **Condur EA1**

#### CONSUMPTION

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

#### SUBSTRATE PREPARATION

Ensure no moisture present in the substrate. If moisture present hot air blasting can be done to remove excess moisture from the substrate until it becomes moisture free. 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. Surface preparation can also be done using sand blasting method. No primer is required when the concrete surface is prepared clean and roughened.

In the case where additional bonding of the substrate with the repair product is required, primer is available upon request.

For wet & damp condition: 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.

**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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