

ELASTOMERIC CONCRETE

DESCRIPTION

Condur AR(P) is an elastomeric concrete for use in highway, taxiways and bridge repairs and for expansion joint assembly anchoring and nosings.

USES & ADVANTAGES

An easy to use elastomeric concrete for repairs to runways, highways, bridge and expansion joint arises. It is used both in new construction of expansion joints and repair connecting steel to concrete and acting as nosing material.

Advantages:-

- High load bearing capacity.
- Excellent bond to steel and concrete.
- Impact resistant.
- High compressive strength.
- Chemical and oil resistant.
- Easy to install with early strength gain.
- Flexible.
- Trafficable in one hour.
- Withstands extreme temperature changes.
- Use as a pourable sealant in expansion joints.

PROPERTIES

Specific Gravity @ 25°C:	Approx. 1.8 kg/litre.
Initial Setting Time @ 25°C:	Approx. 60 min.
Rheological Properties : (Immediately after mixing)	Self-Leveling BS 4254
Tensile Strength : (Before Ageing)	min 4 N/mm ² ASTM D638
Elongation at Break : (Before Ageing)	min 30 % ASTM D638
Hardness : (Before Ageing)	Approx. 50 Shore D ASTM D2240
Impact Ball Drop (>10 ft): ASTM D3029	
300 mm	No crack or breaks observed
600 mm	No crack or breaks observed
Abrasion Test : (Taber Abrasion)	139 Mg/1000 cycles ISO 9352
Compressive Strength : 7 Days @25°C	7.5 - 12 N/mm ² ASTM D695
Trafficable at 25°C:	Approx. 1 hour
Cure Time at 25°C:	Approx. 1 hour
Adhesion Bond Strength : to concrete @ 7 days	3.2 N/mm ² ASTM D4541
Chemical Resistance : ASTM D543	Good to below chemicals
	Ethylene glycol
	Iso propyl alcohol
	Jet fuels
	Silicone Grease
	Sodium Chloride
	Mineral Oil
	Trisodium phosphate
	Potassium acetate
	Dilute sulphuric acid
	Dilute NaOH solution
	Sea water
	Chlorine water
Waste water	
Glycerine	
Soap solution	

Note: Condur AR(P) is moisture sensitive. Prime all surfaces prior to installation. Do not install product unless cure can be reached before rainfall. Part A & B must be premixed before adding Part C Do not install below 10°C or in a wet environment.

CONSUMPTION

Approx. 79-81 sets of Condur AR(P) will yield 1 cubic metre volume.

SURFACE 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, sandblasting is the preferred method of surface preparation. 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.

MIXING & APPLICATION

STEP-1 : MIXING

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

STEP-2 : FILLER ADDITION

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

Note: Do not add all C"Part C" at once.

STEP-3 : PLACING OF CONDUR AR(P)

Pour the homogenous mixture of **Condur AR(P)**, immediately into the repair area.

The poured material is self levelling & can cover almost 100% of the concrete patches surface area & volume on its own.

Note: Finishing can be done at the side gaps of concrete patches wherever applicable.

STEP-4 : CURING & FINISHING

As the poured material cures, use a notched trowel to provide a grooved finish if required. Repairing of joints requires forming materials to be used. Do not install below 10°C.

The fully cured material can accept traffic after approx 1 hr of pouring as illustrated.

Condur[®] AR (P)



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CLEANUP

Use xylene or toluene to clean equipment.

PACKAGING

23 kg set. Part A= 6 kg. Part B= 2 kg and Part C = 15 kg.

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 : 2008 verified by TUV Nord.

CONTACT DETAILS

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