

## ARACO EPOINJECTION 10

Two component, low viscosity, epoxy resin based injection

### Product Description

ARACO INJECTION 10 is a two-component system based on low-viscosity epoxy resins. Ideal for sealing static cracks from widths greater than 100 microns to 6mm. It is suitable for a wide range of heavy-duty and crack injection applications in concrete.

### Applications

ARACO INJECTION 10 is suitable for a wide range of heavy-duty and crack injection applications including:

- Provides a free-flowing resin grout
- For injection of cracks in all types of structural concrete elements, masonry and brickwork.
- Suitable for injecting cracks widths from 100 microns to 6mm
- Suitable for manual pouring into horizontal floor cracks.
- Used to fill and bond cracks in columns, bridge decks, floors, basements and beams

### Product Advantages

- Excellent durability - high compressive, flexural and tensile strengths ensure a long working life.
- Cost effective - high early strength gain promotes minimum downtime and early commissioning of plant.
- Low viscosity and will penetrate deeply into very narrow cracks and cavities
- User friendly- simple, full pack mixing to ensure that the performance characteristics are achieved
- Versatile - suitable for a wide range of loading situations including repetitive dynamic loads
- Excellent in-service performance, non-shrink capability ensure full surface to surface contact
- Non-shrink ensures complete surfaces contact and bond, also ensures that it will resist hydrostatic pressure and block penetration of deleterious substances
- **ARACO INJECTION 10** will resist hydrostatic pressure and block penetration of deleterious substances



**Package:** 5 kg at mixed & fixed weight proportion

### Surface Preparation

- The surface of the cracks should be cleaned from dust, oil, plaster, grease, curing compound and corrosion deposits. All cracks to be repaired should be cleaned with compressed air. This should be carried out after drilling injection holes.
- Holes are drilled to install mechanical packers. Always try to allocate steel re-bars and conduit before drilling.
- Using high quality rotary hammer drill and depending on packer diameter used
- The angle which drilling should be is 45 C or less to surface and toward the crack.
- Depth of the drill holes intersecting the crack should be somewhat close to middle of structure. if possible.
- Holes greater than 45 cm are not required even if the concrete being repaired is more than 90 cm thick.
- Holes should always be staggered from one side of the cracks to the other

## Mixing & Application

Mix **ARACO INJECTION 10**, resin and hardener using mechanical slow speed drill when using single component injection pump. when using 2 components pump, the pump should be charged at 4:1 ratio (by volume), which is equivalent to the pre-packed proportion of the base and hardener components.

Load the mixed resin and charge the pump, hose and gun begin injection at point of highest resistance to ensure good penetration and minimal loss of materials. the injection usually starts the lowest point on vertical crack and at the narrowest area on horizontal surface.

Injection process will continue until the mixed resins **ARACO INJECTION 10** travelled to next packer. Disconnect and move to next packer.

After completing two packers, return to first packer and inject again. continue with this fashion until crack is completely filled

## Chemical resistance

**ARACO INJECTION 10** low viscosity injection resin (in a fully cured state) has excellent resistance to most aqueous substances and liquids. these includes:

- Raw sewage
- effluent
- brackish water
- Low concentration Acids
- Alkalis
- Oils (mineral and organic)

## Product Data

Composition      A (resin) + B (hardener) packed in two separate containers

Storage condition      Store in a dry area between 5°C and 35°C. Protect from direct sunlight

Shelf Life      12 months minimum from production date if stored properly in original unopened packaging.

## Technical Data

Mixed Density	1.05 ± 0.03 kg/ltr	
Tack-free time	6hours @ 20 °C.	
Bond strength	7 N/mm <sup>2</sup> (2 days)	ASTM C882
	10 N/ mm <sup>2</sup> (14 days)	
Chemical resistance	Pass	
Compressive strength	70 N//mm <sup>2</sup> (7 days)	ASTM C881
Tensile strength:	50 N//mm <sup>2</sup> @ 7 days	ASTM D 638
Flexural strength	85 N / mm <sup>2</sup> @ 7 days	
Permeability	Impermeable	
Pot life:	50 min @ 20 °C.	
	30 min @ 40 °C	
Water absorption	< 1%	
Violate content	<20 gm/l	
Elongation at break:	>1%	ASTM D638
Application Temperature	From +5C to +30C	

## Legal Notes

The information, recommendations, and application are based on ARACO current knowledge and experience of the products when properly stored, handled, and applied under normal conditions. ARACO products are guaranteed against defective materials and manufacture and sold subject to standard conditions. Users should always refer to the most recent technical data sheet for the product concerned, copies of which will be supplied on request.

## More from ARACO

A wide range of construction chemical products is manufactured by ARACO which include:

- Premixed mortar
- Tile adhesives & Grout
- Concrete Repair
- Flooring systems
- Protective Coating
- Waterproofing
- Bonding Agents
- Concrete Admixtures
- Surface Treatments
- Grout & Anchors
- Sealants
- Sports Flooring