

# DANOINJECT EP 100



## Low Viscosity Epoxy Grout

### DESCRIPTION

**DANOINJECT EP 100** is two component low viscosity epoxy resin-based chemical used for grouting and filling of cracks and honeycombed concrete surface.

The low viscosity nature of the grout enables it to penetrate into the recess of concrete members and behind the reinforcement of the member under repair and grout the gap widths of 0.1mm to 10mm.

### ADVANTAGES

- High early and ultimate strength.
- Impermeable.
- Low viscous enables deep penetration.
- Good chemical resistance.
- Non-shrink - eliminates shrinkage associated with cementitious grouts thus ensuring stress free surface.
- Permanent bonding solution for concrete cracks.
- Facilitates quick repair and minimum downtime.

### USES

- Grouting and repair of damaged concrete beams, columns, honey-combed structures, etc.
- Repairs to bridges, drive ways etc.
- Injection sealing of voids and cracks in concrete floors, walls and structures.
- Structural infill or support where thin section grouting or high strength is required.

### APPLICATION

#### SURFACE PREPARATION

Remove all laitance, foreign matter, dirt, oil, grease and loose particles using conventional methods.

#### MIXING OF COMPONENTS

**DANOINJECT EP 100** is supplied as pre-weighed two components, ready to use at site.

Mix entire pack quantity. Do not dilute the material to reduce the viscosity.

The components of **DANOINJECT EP 100** shall be mixed by gradually pouring Component-B in to a container containing Component-A under gradual mixing for approximate 3 minutes using slow speed electric stirrer to achieve homogeneous colored mix.

Use the mixed material within its pot life.

#### APPLICATION

##### IMPREGNATION OF CRACKS ON HORIZONTAL SLABS

Apply **DANOINJECT EP 100** in to the cracks with a paint brush or roller until complete saturation of the substrate is achieved.

Seal the cracks by pouring **DANOINJECT EP 100** between the two side dams made from PU sealant **TIKISEAL PU40**.

If the cracks are through and through, then before pouring the grout, seal the underside of the soffit with epoxy putty prepared using **DANOPRIMER I-EPS**.

##### INJECTION SEALING OF CRACKS ON HORIZONTAL / VERTICAL SLABS

Drill holes at least 30 cm c/c all along the crack line on the concrete surface to be grouted to a suitable depth and clean the holes by oil free compressed air to ensure complete removal of dust and loose particles. Finally cut the exposed injection ports.

Care should be taken to see the nozzles are effectively sealed with no air leakage / pockets inside.

Fix the injection nozzles in the holes securely using quick setting mortar or epoxy putty prepared using **DANOPRIMER I-EPS** and allow it to harden overnight.

Seal the surface of crack in between injection nozzles using epoxy putty prepared using **DANOPRIMER I-EPS**.

If the cracks are through and through, then before injecting the grout, also seal the underside of the soffit with epoxy putty prepared using **DANOPRIMER I-EPS**.

Start injecting **DANOINJECT EP 100** under pressure through injection nozzles using injection pump.

As soon as the grout oozes out of the next injection nozzle / further injection of grout is refused, the first injection nozzle is sealed and injection process is continued from next injection nozzle.

For vertical crack, injection should start from lowest injection nozzle and continued upwards.

After completion of the injection process, allow grout to cure for at least 24 hours.

## SUPPLY

**DANOINJECT EP 100** is supplied in 7 Kg Combo Pack consisting of Component-A 5 Kg. and Component-B 2Kg. It has a shelf life of 12 months when stored as recommended.

## PROPERTIES

PROPERTIES	VALUES
Mixing Ratio by Weight Component A: Component B	5: 2
Specific Gravity	$0.90 \pm 0.05$
Viscosity	170 to 270 cps
Pot Life at 25°C	$\approx 30$ minutes
Compressive Strength, 7 Days	$\geq 54$ N/mm <sup>2</sup>
Flexural Strength, 7 Days	$\geq 32$ N/mm <sup>2</sup>
Tensile Strength, 7 Days	$\geq 18$ N/mm <sup>2</sup>

## CLEANING

Immediately after application, use suitable solvent for cleaning application tools.

## STORAGE

**DANOINJECT EP 100** must be stored in dry conditions under the shed and protect from extremes of temperature, heat, direct sunlight, sparks, flames and children.

## SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage of **DANOINJECT EP 100**.

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