

Elastic Acrylic Based Injection Resin Grout

DESCRIPTION

DANOINJECT ACR is an elastic injection grout system based on blend of acrylic polymers with accelerator and catalyst, which when mixed together forms a waterproof gel.

It is designed for both preventive waterproofing on new-build schemes and remedial waterproofing to combat water infiltration or leakages.

ADVANTAGES

The key benefits of using **DANOINJECT ACR** are:

- Ultra low viscous – deeply penetrates and seals finest micro cracks and capillaries by injection.
- Versatile and adjustable reaction times.
- Rapid hardening.
- Permanently elastic.
- Impermeable and durable waterproofing effect.
- Water based - Non-flammable.
- Suitable for use in both dry & moist surfaces.
- Insoluble in water (cured material).
- Good resistance to chemicals.
- Works even in saline environment.

PHYSICAL PROPERTIES

Properties	Value
Colour	Clear
Mix Density	1.05 ± 0.05 g/cc
Mix Viscosity @20°C	1 to 3 cP
Compressive Strength	≈1Kg. /cm ²
Gel Time @ 20°C	5 to 120 Seconds
pH	7 to 10
Tensile Strength	≈3.5 Kg. /cm ²
Bond Strength (Tensile Shear)	≈1 Kg. /cm ²

USES

DANOINJECT ACR when injected, owing to its ultra low viscosity, it penetrates deep in to the concrete and rocky substrates, micro cracks, and capillaries reducing the water permeability and leaks in:

- Tunnels and subways
- Basement and below ground structures
- Podium
- Sewers and manholes
- Dams

It is also suitable for:

- Crack and joint injection sealing
- Injection through TIKIPLAN RIH injection hoses for watertight sealing of construction joints
- Void filling
- Post-construction external injection sealing system for construction and non-moving joints

APPLICATION

MIX PREPARATIONS

DANOINJECT ACR is supplied as pre-weighed three components (Resin, Hardener and Accelerator).

Before injecting, the solution of Resin and Hardener components of **DANOINJECT ACR** should be prepared separately in accordance with the expected consumption and time frame.

A trial sample should be completed prior to injection to ensure reaction times meet the requirements.

PREPARATION OF RESIN SOLUTION

Depending upon the required reaction time (gel time), prepare solution of Resin by adding the required dosage of Accelerator to Resin component and mixing until homogeneous mix is obtained.

PREPARE HARDENER SOLUTION

In a separate container, prepare solution of Hardener component by adding the Hardener component to water and mixing until hardener powder is completely dissolved and homogeneous mix is obtained (Hardener: Water – 0.35 Kg.: 19.65 Kg.).

APPLICATION

The prepared Resin solution and Hardener solution of **DANOINJECT ACR** is injected using a high-pressure grouting injection pump (double component type) through injection packers or embedded re-injectable hoses, while maintaining mix ratio and flow rate of 1:1 by weight.

Application equipment and tools in contact with the grout should be made of stainless steel or chrome coated.

Before using the injection grout pump, ensure that all components of injection grout pump are dry.

Fill the storage containers of the injection pump with the prepared solutions of Resin and Hardener and set the pump to work at ratio of 1:1 by weight.

As per the project requirement and site conditions, drill and position the holes of required diameter and injection packers.

On vertical plane, begin injecting from bottom and on Horizontal plane, begin injection from left to right or vice versa.

The prepared grout mix is then injected in to the cracks / joints / voids through injection packers / grout ports / re-injectable hose at required pressure until the grout material comes out of control holes.

After thorough injection sealing and curing process, remove the injection packers and seal the holes using plugging or repair mortar.

CONSUMPTION

Approximate 1.05 Kg of grout mix is required to fill 1 litre of volume.

CLEANING

Immediately after application, use water / soap water to clean the application equipment and tool.

SUPPLY

DANOINJECT ACR is supplied as three components in 20.65 Kg, pack, comprising of Resin Component: 20 Kg., Hardener Component: 0.35 Kg. and Accelerator Component 0.30 Kg. It has a shelf life of 12 months when stored under the covered shed in dry and sealed condition.

Packing: 20.65 Kg.

Resin (Liquid)	Hardener (Powder)	Accelerator (Liquid)
20 Kg.	0.35 Kg.	0.30 Kg.

STORAGE

DANOINJECT ACR should be stored under the covered shed in dry condition with temperatures between 5°C to 40°C and protect from extremes of temperature, heat, direct sunlight, high humidity and children.

SAFETY PRECAUTIONS

DANOINJECT ACR is non-toxic and non-flammable in nature. However, normal safety gadgets like goggles, gloves should be used while handling the material. Avoid prolonged contact with the skin, eyes, mouth, and food items.

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