

Re-Injectable Hose with Integral Valves for Sealing Construction Joints in Watertight Structures

DESCRIPTION

TIKIPLAN RIH is an re-injectable hose integral valves, with unique specially designed flexible solid PVC (thermoplastic) covered by sponge strip strengthened by Nylon Braiding which is installed in concrete joints to waterproof and seal any crack or voids in the joint area to eliminate the possibilities of leakage in future.

Standard Compliance

TIKIPLAN RIH complies to DIN EN ISO 868.

The product will be a re-injectable hose with tensile strength 13MPa with the following dimensions: ID:6mm and OD:13mm & ID: 7mm and OD:19mm.

ADVANTAGES

- Suitable for many different structures and construction methods.
- Easy to install and cost effective.
- Tested in water pressures up to 10 bar (100m).
- Uses unique valve techniques for injection.
- Re-injectable with resins and micro-fine cement suspensions.
- Ideal backup in combination with water stop.

USES

TIKIPLAN RIH is used to seal construction joints in watertight structures against water and salt-water ingress. It is cast into construction joints with the concrete. To seal the joint it can be injected with suitable injection materials including acrylic and polyurethane resin, or micro-fine cement suspensions.

APPLICATION INSTRUCTIONS

FIXING

TIKIPLAN RIH injection and vent hoses is fixed to the substrate with hose clips and accessories as supplied.

Fixing shall be at 200-250mm centre to centre distance to ensure that the hose do not float in the fresh concrete during casting process.

Use sealing caps at the end of vent hoses to ensure that the concrete does not penetrate into the hose.

INJECTION

When injection needs to be carried out, locate the vent hose, remove the sealing cap and fix suitable injection nipples and accessories. It is imperative that the following steps are followed in the listed sequence:

- Fill the hose with injection material using injection pumps until flow is observed at the other end.
- Plug the end.
- Pressurize the super-cast injecto-seal injection hose.

It is essential that the injection material penetrate the joint. This is achieved by maintaining the pressure for 5 mins after the material has been injected with no pressure loss observed. Better results are achieved when using moderate pressure and a longer injection time, as opposed to a shorter injection period at elevated pressure.

It is recommended to repeat the same procedure from the other end to ensure even distribution along the length of the joint.

APPLICATION DATA

| Property | Value |
|---------------------|-----------------|
| Tensile strength | 13 MPa |
| Elongation at Break | >280% |
| Hardness Shore A | 80 to 85 |
| Water Absorption | 0.12% in 24hrs. |

LIMITATION

The concrete should be minimum 28 days old prior to commencing injection.

SUPPLY

TIKIPLAN RIH is supplied in 100m rolls with accessories.

The dimension of **TIKIPLAN RIH** is as follows:

Inner Diameter: 6mm, Outer Diameter: 13mm

Inner Diameter: 7mm, Outer Diameter: 19mm

STORAGE

TIKIPLAN RIH must be stored above 5°C. Store under the shed & protect from extremes of temperature, heat, and direct sunlight.

SAFETY PRECAUTIONS

As with all synthetic products, care should be taken during use and storage of **TIKIPLAN RIH**.

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TIKITAR DANOSA (INDIA) PRIVATE LIMITED

Tiki Tar Estate, Village Road, Bhandup (W), Mumbai - 400 078,
Maharashtra, India. T: +91 22 4126 6699

E: info@tikidan.in | W: www.tikidan.in

