

# Hydrotite Plugs Installation Guidelines



## Waterproofing Thru Tie Holes

Hydrotite is an expanding rubber sealing material used extensively throughout the construction industry for sealing horizontal and vertical construction joints for poured in-situ concrete.

Hydrotite consists of a black non-expansion chloroprene rubber co-extruded with a blue hydrophilic rubber.

Hydrotite has the ability to expand in the presence of water or moisture creating a pressure seal within the joint. The co-extruded design means that the expansion is directed across the joint for maximum sealing performance.

Hydrotite rods can be used for sealing off thru tie holes in various structures. This is achieved by locking in an expanding Hydrotite plug between a non-shrink grout / epoxy.

The plastic conduit is knocked out of the concrete wall, the Hydrotite rod is then cut into plugs approximately 40mm long and placed in the middle of the wall. A 20-40mm piece of closed cell backing rod is placed on both sides of the Hydrotite plug and then a cementitious repair mortar or epoxy mortar is used to fill the remaining voids finishing flush with the concrete face.

As any water comes into contact with the Hydrotite plug, the Hydrotite reacts with the water and starts expanding. The Hydrotite plug is now locked in between the repair material/ epoxy and as it expands against the wall of the structure it produces a self sealing pressure to stop any water path.

Note that when using Hydrotite plugs, measure the thru tie hole with the conduit sleeve removed to determine which size Hydrotite RSS should be used. For example a typical 20mm inside diameter conduit leaves a 25mm outside diameter hole, so the actual plug size required is 25mm.

Hydrotite RSS is supplied in 16mm, 20mm, 22mm and 25mm diameters.

## Supply

Profile	Dimensions	Material code
Hydrotite RSS1610D / 10m roll	16mm diameter	FC000580-UNIT
Hydrotite RSS2014D / 10m roll	20mm diameter	FC000455-UNIT
Hydrotite RSS2205D / 10m roll	22mm diameter	FC000595-UNIT
Hydrotite RSS2519D / 5m roll	25mm diameter	FC000545-UNIT

## Shelf life

Hydrotite has a shelf life of 3 years from date of manufacture. When storing, keep Hydrotite in a cool, dark, dry space and not expose it to water or sunlight.

### Important notice

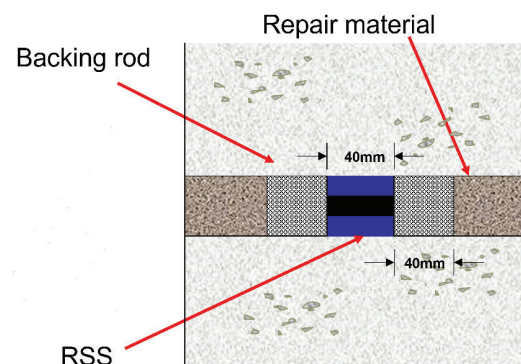
A Safety Data Sheet (SDS) and Technical Data Sheet (TDS) are available from the Fosroc website. Read the SDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

### Product disclaimer

This document summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this and the TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.

## Installation Procedure For Hydrotite Plugs

1. Remove plastic conduit sleeve from inside of wall
2. Cut required diameter Hydrotite RSS Rod into plugs 40mm long
3. Place Hydrotite plug into middle of wall
4. Place a 20-40 mm long piece of closed cell backing rod to both sides of Hydrotite plug to limit any lateral pressure
5. Fill both sides of remaining holes using a good quality repair material such as Renderoc HB40 or epoxy mortar finishing flush with the concrete face.



The above installation guidelines show the typical application of Hydrotite RSS in a 200mm thick wall.