

Corrofill WS

Crack injection resin for stopping water flow

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Product Features

Corrofill WS is a solvent free two component high grade polyurethane foam resin which expands its volume upon contact with moving water to form a cellular barrier. **Corrofill WS** is designed to stop movement of water in cracked concrete and reacts well with alkaline water up to pH 13. When **Corrofill WS** is used in conjunction with **Corrofill PU**, concrete cracks can be permanently sealed.

Typical Uses

Corrofill WS is used for cracks in concrete to temporarily stop water flow. It is suitable for bridging cracks of width >0.2 mm.

Technical Data

Properties	Typical Values
Pot life in absence of water	: approx 1 hour
Setting time with water presence	: 5 - 15 seconds
Specific gravity of mix	: 1.15 approx
pH value	: 6 ± 2
Viscosity	: < 300 cps
Free expansion	: 30 - 40 times
Application temperature	: > 5°C

Note: All values given are subject to 5 - 10% tolerance.

Directions for Use

Preparation

If water flow permits, clean the area, remove unsound or contaminated plaster, dirt deposits or algae. **Corrofill WS** can be applied using either injection packers fixed into holes directly into crack or drilled diagonally to concrete adjacent to crack or by fixing injection nipple bonded to substrates by using suitable means like **Corromortar FC**. Install the drill hole packers in such a way that injection hose can be connected comfortably to the fittings. Packers must be fastened tightly in the drill holes. Necessary measures should be taken, in the event of hydrostatic water pressure to reduce the flow rate, to prevent washing away of filling material.

Mixing

It is essential that the mixing instructions are carefully followed to ensure the correct characteristics of the product are achieved. Failure to do so can result in lower performance or even possible failure of the product.

Mix the required quantity hardner and the resin at 1:1 volume proportion.

Avoid contact with moisture as the products are moisture sensitive.

Application

Mixed **Corrofill WS** can be injected with standard one or two component injection equipment having closed containers. Injection pressure should be around 20 bar or more depending up on conditions. When water flow has been stopped re-inject with **Corrofill PU** to provide a permanent seal. If a secondary injection is carried out several hours later it may be necessary to install new packers in different position.

After the injection and curing process, remove the packers and close the drill holes with suitable sealing material like **Corromortar FC**.

Hot weather conditions

For application above 40°C we recommend adopting the following guidelines:

Store materials in a cool preferably air conditioned environment.

Avoid exposure of materials to direct sunlight.

Avoid application during the hottest time of day.

Cleaning

Clean tools & equipment immediately after use with detergent and water.

Limitations

As a stand-alone product **Corrofill WS** cannot be considered permanent solution. In conjunction with a suitable sealant material, such as **Corromortar FC**, it is a permanent solution.

Substrate temperatures should be above 5°C and rising.

For application in temperatures above 40°C please refer to hot weather condition recommendations.

Corrofill WS is hygroscopic, contact with water on storage and prior to application must be avoided.

All products should be used within the pot life. Materials not used within the specified time should be discarded.

If the above general application details do not meet with your requirements, please contact Corrotech for a project specific method statement.

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Estimating

Corrofill WS pack size: 10 L kits

All coverage rates given are theoretical and subject to actual site conditions. We recommend trial areas are done to establish practical consumption particularly for primers.

Health & Safety

Always use appropriate PPE including gloves, goggles and a barrier cream to avoid contact with skin and eyes.

Should contact with skin or eyes occur, wash immediately with plenty of clean water and seek medical advice.

If swallowed, seek medical attention immediately. Do not induce vomiting.

Do not expose products to fire or naked flames under any circumstances.

Always refer to the product Material Safety Data Sheet (MSDS) for full health & safety and handling recommendations.

Storage

Corrofill WS has a maximum shelf life of 6 months from the date of manufacture.

To maximize shelf life always store products in their original, unopened packaging in a dry environment, away from direct sunlight with a minimum temperature of 10°C.

Damaged packaging, high humidity or extreme temperatures may reduce the shelf life.