

Corrofill PU

Flexible polyurethane crack injection resin

Reference No.	TDS / CR / CFIPU
Issue Date:	December 2015
Revision No.	2

Product Features

Corrofill PU is a solvent free two component high grade polyurethane injection resin system for permanently sealing cracks in concrete or masonry either wet or dry to form an elastic seal. It is a low viscosity product and allows penetration to fine cracks and has good adhesion to moist surfaces.

Typical Uses

Corrofill PU is used for cracks in concrete to permanently stop water flow. It is a low viscosity product which allows deep penetration into narrow cracks. **Corrofill PU** has good adhesion to wet or moist surfaces and is also suitable for live cracks when used in conjunction with **Corrofill WS**.

Technical Data	
Properties	Typical Values
Pot life	: 15 - 30 minutes
Setting time	: 24 hours
Specific gravity of mix	: 1.1 approx
Reaction time	: 2 hours
Viscosity	: < 100 cps
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. Blow the treated area using oil free air to remove dust and loose particles. In presence of running water, flow must be stopped using **Corrofill WS**. When the water flow is stopped the cracks are re-injected with **Corrofill PU**.

Injection packers shall be inserted to pre drilled holes along the length of the crack at intervals. Spacing shall be close enough so that resin will penetrate along the crack at next injection point. Surface of the cracks between the injection packers shall be sealed using **Corromortar FC**.

Corromortar FC requires curing of 8 - 10 hours at 35°C. If the crack runs through the thickness of the water slab, packers shall be placed at both sides in such a way that back place packers should be at the middle point of front placed packers. This ensures uniform filling of injection resin.

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 contacts with moisture as the products are moisture sensitive.

Application

Mixed **Corrofill PU** can be injected with standard one or two component injection equipment having closed containers. Injection pressure should be around 5 bar or more depending on conditions.

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

Hot weather conditions

For applications 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

Wet tools and equipment can be easily cleaned with **Corroclean**.

Limitations

Corrofill PU can be only used on damp or dry concrete.

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

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

Avoid application if the work area may be subject to the onset of rain or moving water.

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.

Corrofill PU

Flexible polyurethane crack injection resin

Estimating

Corrofill PU pack size: 10 litre kits. Actual consumption depends on surface profile, application and handling loss.

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 PU 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.