

# Setplug L

Rapid set waterproofing admixture for plugging of water leaks



## DESCRIPTION

Setplug L is a fast set liquid waterproofing admixture specially designed for rapid patching and plugging of water leaks in concrete or masonry structures.

Setplug L rapidly seals areas of significant water infiltration through concrete, rock, or masonry when mixed with Ordinary Portland Cement and water.

## APPLICATIONS

- » Patching and plugging general water infiltration and water leaks in concrete structures such as; Tunnel lining, sewage plants, basements, culverts, water tanks, concrete pipes, manholes and concrete segments.
- » Preliminary waterproofing work on wet surfaces prior to the application of subsequent cementitious renders.
- » Setplug L can be used in quick setting mortar for fixing anchors, bolts and other fitting subject to early loading.

## ADVANTAGES

- » Fast setting, to avoid washout even in the presence of running water.
- » Easy to use. Single component.
- » Excellent bond to concrete.
- » Solvent free.
- » Chloride free.

## METHOD OF USE

### SURFACE PREPARATION

All substrates should be rough, clean and free loose material and contamination. All areas to be patched should be washed with fresh, clean water to remove any dirt, debris, loose particles, or contaminants from surfaces.

Remove and cut any sharp protrusions from the surface. To improve the bond, cracks and infiltration points may need to be widened and deepened using a chisel.

### MIXING

Based on the application and water pressure, add the required dilution water to a clean container. Add Setplug L slowly at the desired dilution rate and mix.

Add the diluted liquid of Setplug L into a clean mixing container, and quickly add the cement (approximately 1 part diluted liquid to 2 parts of cement) measured by volume.

## TECHNICAL PROPERTIES @ 25°C:

Colour:	Clear liquid
Density	1.28 ± 0.05 g/cm <sup>3</sup>
pH:	≈ 13.5
Recommended dilution rate: (Setplug L:Water)	1:1 - 1:4 (by volume), depending on the application
Recommended mixing ratio: (Diluted Setplug L:Cement)	1:2 (by volume)
Setting time:*	≈ 2 - 3 min
Application temperature:	5 to 35°C

*\*When diluted 1:4 and mixed with OPC 52.5N (1:2, diluted formula : cement).*

*\*The above data was developed under controlled laboratory conditions. Properties in the field may vary. Expect reasonable variations from these results, depending on material and ambient temperature, cement type, jobsite and test conditions.*

Mix the materials quickly and thoroughly into a paste and use immediately. Due to the rapid set nature of the product, mix only small amounts that can be used within the setting time.

## APPLICATION

Apply the product to the leaking areas using trowel or gloved hand and hold firmly until set. Scrape away any excess product using a spatula. Cover the paste with a subsequent coating of DCP waterproofing mortars (Consult DCP technical department).

In areas of medium to heavy water infiltration, discharge points made of short length plastic tube bonded into drilled holes using Setplug L should be used to divert water discharge; this will reduce the pressure until the waterproofing final render has fully hardened.

Remove the tubes and plug the holes using a mix of diluted Setplug L (1:1 dilution rate) and cement. After the discharge tubes have been removed and water infiltration has stopped, apply the final layer of render.

In case of high water pressure, the prepared area around the discharge tubes may need to be increased to offer a wider surface area for better adhesion of Setplug L paste.



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## REMARKS

- » Trials are recommended before applying Setplug L to confirm the desired water dilution dosage.
- » Only fresh Ordinary Portland Cement can be used with Setplug L.
- » In hot temperature applications, the material should be stored in the shade, and cooler water should be used.
- » Setting time will depend on the type and age of OPC cement used, water temperature, Setplug L temperature and the ambient temperature.
- » All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## CLEANING

Clean Setplug L with fresh cold water.

## PACKAGING

Setplug L is available in 5 litre jerrycans.

## STORAGE

Setplug L has a shelf life of 12 months from date of manufacture if stored in dry, cool conditions in its original sealed container at temperatures between 5°C and 30°C and away from direct sunlight, or frost.

If these conditions are exceeded, contact DCP Technical Department for advise.

## CAUTIONS

### HEALTH AND SAFETY

Setplug L should not come into contact with skin and eyes. In case of contact with eyes, immediately flush with plenty of water and seek medical advice promptly.

For further information, refer to the Material Safety Data Sheet.

## FIRE

Setplug L is nonflammable.

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- » Concrete admixtures.
- » Surface treatments
- » Grouts and anchors.
- » Concrete repair.
- » Flooring systems.
- » Protective coatings.
- » Sealants.
- » Waterproofing.
- » Adhesives.
- » Tile adhesives and grouts.
- » Building products.
- » Structural strengthening.

#### Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.