

Setplug

Rapid set cementitious mortar for plugging of water leaks



Description

Setplug is a fast set cementitious mortar for rapid patching and plugging of water leaks in concrete structures.

Applications

Setplug is used for patching water leaks in concrete structures such as; Tunnel lining, sewage plants, basements, water tanks, foundations and concrete segments.

Advantages

- ▲ Fast setting.
- ▲ Easy to use. Single component, only needs addition of water.
- ▲ Excellent bond to concrete.
- ▲ Low exothermic, minimizing thermal cracks.
- ▲ Chloride free.

Method of Use

Surface Preparation

All substrate should be clean and free loose material and contamination. All areas to be patched should be cut back to a minimum depth of 15 mm. Leaking cracks should be chased out to a depth of 20 mm.

Mixing

Clean water should be added to a clean container. Add the powder slowly and mix using a trowel or gloved hand until a stiff mixture is obtained, the mixing ratio should be 1 part of water for each 3 parts of Setplug measured by volume.

This is equivalent to 1 part of water for each 4 parts of Setplug measured by weight.

Due to the rapid set nature of the product, mix only small amounts that can be used within the setting time. In very cold conditions, the use of warm water (room temperature) is advisable to accelerate strength development. Do not apply when frost is expected within 12 hours of application.

For hot temperature applications, the material should be stored in the shade and cooler water used.

Technical Properties @ 23 ± 2°C:

| | |
|---|--------------------|
| Colour: | Grey |
| Setting time*: | ≈ 60 sec |
| Compressive strength: ASTM C109/109M | ≥ 10 MPa @ 1 hr |
| | ≥ 14 MPa @ 1 day |
| | ≥ 19 MPa @ 7 days |
| | ≥ 24 MPa @ 28 days |

**Set times will be extended at lower temperatures and reduced at higher temperatures.*

Application

Apply the product to the leaking areas using trowel or gloved hand and hold until set. Apply at a minimum thickness of 15 mm. Cover the leaking area and surrounding areas.

Notes:

- ▲ The minimum application thickness of Setplug is 15 mm.
- ▲ When the needed quantity is mixed, it must be used and held in the needed position until the initial set is reached (1 minute at 25°C).

Packaging

Setplug is available in 1 and 10 kg bags.

Yield

5 - 6 litre per 10 kg bag.

Storage

Setplug has a shelf life of 9 months from date of manufacture if stored at temperatures between 5°C and 35°C.

If these conditions are exceeded, DCP Technical Department should be contacted for advise.

Cautions

Health and Safety

As Setplug contains cement, Setplug may cause irritation to skin or eyes.

Setplug

In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advice if necessary.

For further information refer to the Material Safety Data Sheet.

Fire

Setplug is nonflammable.

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- ▲ Tile adhesives and grouts.
- ▲ Building products.
- ▲ Structural strengthening.

Note:

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