

Setplug

Rapid set cementitious mortar for plugging of water leaks



DESCRIPTION

Setplug is a chloride free, rapid-setting cementitious mortar in prepacked powder form. When mixed with water it provides rapid setting mortar especially designed to stop water leakages instantaneously from concrete and masonry 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 set.
- » Durable.
- » Easy to apply. Single component, requires only addition of water.
- » Low exothermic, minimizing thermal cracks.
- » High bond strength, ensuring monolithic performance of the repair.
- » Suitable for use in contact with potable water.
- » Chloride free.

STANDARDS

Setplug complies with the requirements of BS EN 1504-3, non-structural repair product, Class R1 for repair principle 3.1.

METHOD OF USE

SUBSTRATE PREPARATION

All surfaces must be clean and free from dust, oil, grease, paints, loose material or any 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.

TECHNICAL PROPERTIES @ 23 ± 2°C. W/P = 0.25:

Colour:	Grey
Mixing ratio:	6.25 litre of water for 25 kg
Compressive strength: BS EN 12190	≥ 10 N/mm ² @ 1 hr ≥ 14 N/mm ² @ 1 day ≥ 19 N/mm ² @ 7 days ≥ 25 N/mm ² @ 28 days
Adhesion bond: BS EN 1542	≥ 0.8 N/mm ²
Chloride ion content: BS EN 1015-17	≤ 0.05%
Thermal compatibility: freeze-thaw cycling BS EN 13687-1	Pass
Reaction to fire: BS EN 13501-1	Class A1
Setting time*:	60 sec

**Setting time will be extended at lower temperatures and reduced at higher temperatures.*

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.

PLACING AND FINISHING

Setplug can be applied by trowel or gloved hand. Apply the mixed mortar with firm pressure 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).

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Setplug

CLEANING

All tools should be cleaned immediately after application using fresh clean water. Hardened materials must be cleaned mechanically.

PACKAGING

Setplug is available in 1,5 and 25 kg bags.

YIELD

Approximately 5 - 6 m² per 25 kg bag @ 3 mm thickness.

STORAGE

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

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

CAUTIONS

HEALTH AND SAFETY

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

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.

Setplug will not contribute in any state of the fire including fully developed fire.

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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.

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