

CRYSTALLINE WATERPROOFING RAPID SET WATERPLUG

DESCRIPTION

PENEPLUG® is a rapid setting, integral crystalline cementitious waterstop designed to stop active water leaks and moisture ingress. Unlike conventional waterplugs, the crystalline complexes grow in the presence of water and migrate to the surrounding areas of the initial application; block the capillaries of the concrete and minor shrinkage cracks, thus waterproofing the repaired surface and the area around it.

RECOMMENDED FOR

PENEPLUG® can be used internally or externally as a waterproof plugging mortar or where rapid setting and early strength gain is required.

- ▶ Plugging/stopping active water leaks
- ▶ Sealing of leaking joints, form tie holes or cracks

PENEPLUG® can be used on the following substrates:

- ▶ Concrete
- ▶ Masonry
- ▶ Earthenware
- ▶ Stone

ADVANTAGES

- ▶ Stops water flow
- ▶ Sets in approximately 30 seconds after mixing
- ▶ Durable
- ▶ Can be used underwater
- ▶ Can be mixed with water or used dry
- ▶ Easy to apply
- ▶ Packaged in easy to use, re-sealable containers
- ▶ Zero VOC - PENETRON powdered products contain zero volatile organic compounds and are safe for use both outdoors and in confined indoor spaces
- ▶ Crystalline complexes waterproofing the repaired surface and the area around it

TECHNICAL CHARACTERISTICS

<i>Type</i>	Rapid set cementitious base powder
<i>Color</i>	Cement grey
<i>Bulk density</i>	75 lbs/ft ³ (1.2 kg/Lt)
<i>Temperature</i>	32 to 77 °F (0 to 25 °C) (water and surface temperature)
<i>Setting final</i>	30 minutes

DIRECTIONS FOR USE

Surface Preparation: The substrate must be clean, sound and free of any surface contamination, such as oils, coatings, paints, dirt, etc. Leaking areas must be cut back to sound material, leaving an appropriate chase for receiving PENEPLUG®.

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Mixing: Setting time is dependent largely on the amount of mixing water used. PENEPLUG® must be added to the water and mixed quickly. The mix should have a dry pack (dry earth) consistency, holding a shape when squeezed in your hand but easily crumbled when pressed with fingers. Mixing time is about 15 seconds with setting occurring about 30 seconds later. In cold weather, use lukewarm water. In higher temperatures, use cold water.

To avoid waste, only small quantities of PENEPLUG® should be mixed.

Mixing ratios: Standard mix ratio at 68 °F (20 °C) is 2.5 lb (1 kg) PENEPLUG® and approximately 1 cup (0.25 Lt) of water.

Application: After mixing, apply PENEPLUG® to the appropriate area immediately. Material should be formed into a wedge and forced into the leak. This can be accomplished with the use of a block of wood and hammer. Work the plug well into the area and then, applying as much pressure as possible, hold firmly in place for about 30 seconds or until set. After the leak has stopped, fill the remaining void to the surface with PENECRETE MORTAR™. Remove excess material. After lightly pre-wetting, apply a final coat of PENETRON® to the repaired area.

In certain circumstances PENEPLUG® may be applied as a dry powder. After preparing the surface as described above, place and hold the powder directly over the leak for 30-60 seconds.

PACKAGING

PENEPLUG® can be purchased in 40 lb (18 kg) bags and 9 lb (4 kg) or 55 lb (25 kg) pails.

STORAGE / SHELF LIFE

PENEPLUG® should be stored dry at a minimum temperature of 45 °F (7 °C). When properly stored in a dry cool place in unopened and undamaged original packaging, shelf life is 12 months.

SAFE HANDLING INFORMATION

PENEPLUG® contains cement which is alkaline. Will irritate eyes and skin and may cause skin sensitization. Wear appropriate eye, skin and breathing protection when using this product. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. For further information please refer to Material Safety Data Sheet. **KEEP OUT OF REACH OF CHILDREN**

WARRANTY – DISCLAIMER

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PENEPLUG

for structural and non-structural repair CC mortar

Compressive strength: Class R3 (≥ 25 MPa)

Chloride content: < 0.05 % by mass

Adhesive bond: NPD

Restrained shrinkage, expanding: NPD

Elastic modulus: NPD

Thermal compatibility (Part1): NPD

Corrosion behaviour: deemed to have no corrosive effect

Reaction to fire: NPD

Dangerous substances: NPD

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