PENETRON®
TOTAL CONCRETE PROTECTION

PENEPLUG®

CRYSTALLINE WATERPROOFING RAPID SET WATERPLUG

DESCRIPTION

PENEPLUG® is a rapid setting, integral crystalline cementitious waterstop designed to stop active water leaks and moisture ingress. PENEPLUG® can be used internally or externally as a waterproof plugging mortar or where rapid setting and early strength gain is required.

APPLICATIONS

Concrete
Masonry
Earthenware
Stone

ADVANTAGES

Plugs/stops active water leaks
Seals leaking joints, form tie holes or cracks
Sets in approximately 30 seconds after mixing
Durable
Can be used underwater
Can be mixed with water or used dry
Easy to apply
Zero VOC - PENETRON powdered products contain zero volatile organic compounds and are safe for use both outdoors and in confined indoor spaces

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.

PACKAGING

PENEPLUG® is available in 40-lb (18-kg) bags or 55-lb (25-kg) pails.

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®.

Mixing:

Setting time is dependent largely on the amount of mixing water used. Standard mixing ratio at 68°F (20°C) is 2.5 lb (1.1 kg) PENEPLUG® and approximately 1 cup (0.25 l) of water. Water must be added to PENEPLUG® 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.

Application:

To avoid waste, only small quantities of PENEPLUG® should be mixed. 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, prime the area with a bond coat of PENETRON® and then 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.

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 Safety Data Sheet. KEEP OUT OF REACH OF CHILDREN.

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001dCPR2013-07-10
EN 1504-3
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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 (Part 1): NPD
Corrosion behaviour: deemed to have no corrosive effect
Reaction to fire: NPD
Dangerous substances: NPD

WARRANTY: PENETRON INTERNATIONAL, LTD. warrants that the products manufactured by it shall be free from material defects and will conform to formulation standards and contain all components in their proper proportion. Should any of the products be proven defective, the liability to PENETRON INTERNATIONAL, LTD. shall be limited to replacement of the material proven to be defective, and PENETRON INTERNATIONAL, LTD shall in no case be liable otherwise or for incidental or consequential damages. **PENETRON INTERNATIONAL, LTD. MAKES NO WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED.** User shall determine the suitability of the product for its intended use and assume all risks and liability in connection therewith.

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