

# POLASEAL PENETRANT HARDENER™



## Strength Building Sealer

### DESCRIPTION

POLASEAL PENETRANT HARDENER is a unique water-based polymer especially designed to penetrate and restore strength to masonry surfaces. Applied directly to the substrate, POLASEAL PENETRANT HARDENER chemically strengthens concrete, mortar, block, and other masonry materials.

### OUTSTANDING FEATURES

- Exhibits UV resistance, durability, and chemical stability
- Has no odor; VOC compliant
- Reacts with lime to form stable calcium silicate
- Is compatible with concrete and brick masonry
- Strengthens all concrete and brick masonry
- Deposits polymeric silicates in the treated substrate

### APPLICATION

Polaseal Penetrant Hardener is a premium quality restorative treatment for concrete masonry materials. It is a water-based solution of soluble polymeric silicates designed to be totally compatible with concrete masonry. When applied to a masonry substrate, Polaseal Penetrant Hardener penetrates and deposits its polymeric silicate active ingredients. Two simultaneous reactions occur: first, the silicates

react with free lime in the substrate to form a stable calcium silicate structure. Second, remaining unreacted silicates fuse together to add additional strength. Polaseal Penetrant Hardener will almost always add some strength improvement, even to new concrete. The amount of physical improvement will vary from case to case, depending on the porosity and chemical makeup of the substrate. The physical strength change after treatment may vary from mild improvement to dramatic improvement. A test application is always recommended to determine the effect of treatment in advance.

The substrate must be dry, clean and free of loose particles, oils, or any coating or substance that

would interfere with penetration. Open a new container of Polaseal Penetrant Hardener and stir for 1 minute to be sure that the product is homogenous. Apply the material by brush, roller or spray technique. Apply enough material to thoroughly saturate the surface and to insure that penetration is taking place. Allow at least 24 hours for the Polaseal Penetrant Hardener to dry and for initial cure to take place before proceeding with work.

Polaseal Penetrant Hardener is designed to be used ahead of repair treatments, such as patching, parging, plastering, painting, re-pointing or waterproofing. Polaseal Penetrant Hardener will tighten and strengthen a substrate to greatly improve the performance of repair coatings.

SPECIFICATIONS	
Sealer Type	Aqueous resin solution
VOC	Zero gms/liter
Pot Life	Single component
Shelf Life	12 months
Recommended Thickness	About 1" depth
Coverage	80 to 150 square feet/gallon
Packaging	1 gallon and 5 gallon pails
Color	Transparent

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### LIMITATIONS

Protect product from freezing. Do not apply to frozen surfaces. Do not apply unless the temperature can be maintained above 40°F for 24 hours. Application must be protected from precipitation for at least 12 hours. Shelf life is 12 months when stored in tightly sealed containers. Polaseal Penetrant Hardener may cause a mild white staining on some substrates. This is not efflorescence and it is not damaging to the substrate or the effectiveness of the product. The staining is caused by

a reaction with carbon dioxide in the atmosphere and the alkali component of the product. This produces a small amount of white alkali carbonate by-product that can be washed or brushed away.

### PRECAUTIONS

Product is highly alkaline. Do not ingest. Avoid contact with skin and eyes. In case of contact, immediately flush with water. For contact with eyes, flush with clean water and get immediate medical attention. Always use rubber gloves and eye protection when handling.

### MAINTENANCE

If damage occurs, thoroughly clean and, if necessary, repair the substrate. Apply new Polaseal Penetrant Hardener to the area. Attempt to blend the color and texture with the neighboring areas with patching or parging. If a color match is difficult to attain, coat the entire area with color-matched FibreLastic.

**Keep out of reach of children and pets.**

For more information, call our Technical Department.

TECHNICAL DATA	
Appearance	Slightly clouded liquid
pH	Approx. 11
Density	Approx. 9.7 lbs/gallon
Odor	None
Chemistry	Polymeric silicates
Solvent System	Aqueous
Solids Content	10% (B.W.); 10% (B.V.)
VOC Content	Zero

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