



VOIDSPAN

400 Series

PHLc70 Crack Filler

PRODUCT DATA SHEET

Description/ Uses

VoidSpan PHLc70 Crack Filler is a breathable, ultra-low shrinkage, fine-textured product, for use in the surface filling of cracks and minor defects in older masonry elements. Based on a pozzolanic hydraulic lime (designated "PHLc") as per ASTM C1707, it is a low-to-moderate strength material. As the maximum particle diameter of the **PHLc70 Crack Filler** powder is 200 microns, it can be used to fill cracks as narrow as 0.6 mm (.024").

Placement

Preparation: Remove all loose and deleterious materials from cracks and defects that are to receive **PHLc70 Crack Filler**. Immediately prior to filling, dampen contact surfaces to a completely saturated condition but avoid leaving standing water on the adjacent surfaces and within the crack to be filled.

Mixing: Add 1 part of water to about 5 parts of the powder (by volume). Hand mix for 1 to 2 minutes, correcting with either water or powder to achieve paste consistency. To prepare colored fillers, alkali-stable pigments may be added to the dry powder at a maximum of 2 grams per 100 grams of **PHLc70 Crack Filler**.

Working Time: Up to 60 minutes; do not re-temper after 60 minutes.

Placement: **PHLc70 Crack Filler** can be placed using traditional pointing methods but with small tools, such as flat edged spatulas and pallet knives. For best results, align the spatula edge with one side of the crack and gently push the crack filler into the crack in successive waves, starting at one end proceeding to the other. Be mindful of the length of crack to be filled and of the gradual loss of moisture by capillary suction and evaporation. Do not attempt to push the material into an overly dry crack.

Clean-up: **PHLc70 Crack Filler** is primarily a lime-based product, and can be cleaned up in the similar manner to a lime-rich mortar. This can be done with a damp sponge, or with small damp brushes.

Chemical and Physical Properties

Specific gravity:	1.14 (loose)
Cement content by weight of binder:	< 15% meeting ASTM C1707 as a "PHLc"
Chloride content by total cured weight:	0.002%
Dimension change after hardening:	0.06% at 28 days per ASTM C1090
Standard curing time (CT):	120 days per ASTM C1713
Water vapor transmission:	1.9 g/sq meter/hour per ASTM E96 (modified)

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Cautions/ Limitations

- Do not use in unclean, friable, or excessively dry and/or absorbent surface cracks, or into cracks with standing water. Apply when air temperatures are between 5 degrees C (40 degrees F) and 32 degrees C (90 degrees F) prior to and for at least 7 days after placement. Do not allow the filler to freeze for at least 14 days after placement.
- **This product is highly alkaline and may contain very small amounts of crystalline silica as inhalable dust. Exercise care in using this product, along appropriate eye, skin and breathing protection. Consult the Safety Data Sheet for additional information.**

Installer Responsibility

It shall be the Installer's sole responsibility to use good judgment and experience in installing this material and to conform to all Cautions and Limitations, and all requirements that are noted or referenced herein.