

LOCTITE[®] PC 9012[™]

Known as Fixmaster[®] Crack Filler NS
February 2015

PRODUCT DESCRIPTION

LOCTITE[®] PC 9012[™] provides the following product characteristics:

Technology	Epoxy
Chemical Type	Epoxy
Appearance (Resin)	Light grey paste
Appearance (Hardener)	Dark grey paste
Appearance (Mixture)	Grey paste
Components	Two component - requires mixing
Mix Ratio, by volume - Resin : Hardener	1 : 1
Cure	Room temperature cure after mixing
Application	Sealing and Concrete repair
Application Temperature	4 to 43 °C

LOCTITE[®] PC 9012[™] is a two component, 100% solids epoxy designed to fill cracks, small holes and mildly spalled areas. This product is non-sag making it ideal for horizontal and vertical applications. Typical applications include repairing holes and cracks in concrete for indoor and outdoor applications. Use for spalls no deeper than 5/8 inch (15.9mm) or no wider than 3 inches (76.2mm) in diameter. LOCTITE[®] PC 9012[™] can be used to bond many types of building materials, including concrete, brick, wood, stone and many metals.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Resin:

Density @ 25 °C, g/ml 1.13 to 1.37^{LMS}
Viscosity, Brookfield, 25 °C, mPa·s (cP) 315,000 to 365,000^{LMS}
Flash Point - See SDS

Hardener:

Density @ 25 °C, g/ml 1.19 to 1.45^{LMS}
Viscosity, Brookfield, 25 °C, mPa·s (cP) 375,000 to 425,000^{LMS}
Flash Point - See SDS

Mixed:

Gel Time @ 25 °C, minutes 8
VOC, g/l 79

TYPICAL CURING PERFORMANCE

Curing Properties

Cure Time @ 25 °C, hours 2
Working time (in nozzle), minutes 20

TYPICAL PROPERTIES OF CURED MATERIAL

Cured @ 25 °C, for 7 days

Physical Properties:

Compressive Strength, at yield, ISO 604 N/mm² 55
(psi) (8,000)
Linear Shrinkage, ASTM D2566, % 0.4

GENERAL INFORMATION

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.

For safe handling information on this product, consult the Safety Data Sheet (SDS).

Directions for use:

Surface Preparation:

1. New concrete must be cured for at least 30 days.
2. Surface contaminants such as old coating, loose concrete and dust should be removed by dry abrasive blasting, water blasting, scarifying or by acid etching and thoroughly rinsing.
3. A roughened surface is imperative to good adhesion.
4. LOCTITE[®] PC 9012[™] is moisture insensitive and may be used on damp surfaces.

Application:

1. **Cartridge Preparation:** To begin using a new cartridge, remove cartridge cap and dispense a small amount of adhesive, making sure both parts A&B are extruding. Attach nozzle and dispense a small amount of material until a consistent color with no streaks is achieved.
2. Fill the crack or spall, keeping the mix nozzle immersed in the product as the crack is being filled.
3. Trowel LOCTITE[®] PC 9012[™] smooth and in excess about 1 inch (25mm) from both sides of crack.

Loctite Material Specification^{LMS}

LMS dated January 22, 2008. Test reports for each batch are available for the indicated properties. LMS test reports include selected QC test parameters considered appropriate to specifications for customer use. Additionally, comprehensive controls are in place to assure product quality and consistency. Special customer specification requirements may be coordinated through Henkel Quality.

Storage

Store product in the unopened container in a dry location. Material removed from containers may be contaminated during use. Do not return liquid to original container. Storage information may be indicated on the product container labeling.

Optimal Storage: 8 °C to 21 °C. Storage below 8 °C or greater than 28 °C can adversely affect product properties.

Henkel cannot assume responsibility for product which has been contaminated or stored under conditions other than those recommended. If additional information is required, please contact your local Technical Service Center or Customer Service Representative.

Conversions

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$
 $\text{kV/mm} \times 25.4 = \text{V/mil}$
 $\text{mm} / 25.4 = \text{inches}$
 $\mu\text{m} / 25.4 = \text{mil}$
 $\text{N} \times 0.225 = \text{lb}$
 $\text{N/mm} \times 5.71 = \text{lb/in}$
 $\text{N/mm}^2 \times 145 = \text{psi}$
 $\text{MPa} \times 145 = \text{psi}$
 $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$
 $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$
 $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$
 $\text{mPa}\cdot\text{s} = \text{cP}$

Note:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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Reference 0.2