


**FMS™**

December 2010

**PRODUCT DESCRIPTION**

FMS™ provides the following product characteristics:

<b>Technology</b>	Mold Release
Appearance	Clear, colorless <sup>LMS</sup>
Chemical Type	Solvent Based Polymer
Odor	Hydrocarbon
<b>Cure</b>	Room temperature cure
<b>Application</b>	Mold Sealer
Application Temperature	13 to 35 °C
Specific Benefit	<ul style="list-style-type: none"> <li>• High gloss finish</li> <li>• Easy application</li> <li>• Fast curing</li> <li>• Eliminates Porosity/Microporosity</li> <li>• Seals "green" molds and repaired areas</li> </ul>

FMS™ is formulated specifically as a sealer for fiberglass reinforced polyester, epoxy and other composite molds commonly used in the fiberglass molding industry. FMS™ must be used when using green, or new, molds with microporosity and other slight surface imperfections.

**TYPICAL PROPERTIES OF UNCURED MATERIAL**

Specific Gravity @ 25 °C

 0.757 to 0.771<sup>LMS</sup>

Flash Point - See MSDS

**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 Material Safety Data Sheet (MSDS).**

**Mold Preparation**
**Cleaning:**

Mold surfaces must be thoroughly cleaned and dried. All traces of prior release must be removed. This may be accomplished by using Frekote® PMC or other suitable cleaner. Frekote® 915WB™ or light abrasives can be used for heavy build-up. Full curing of green/new molds is highly recommended to ensure optimal performance of the sealer.

**Directions for use:**

1. Apply FMS™ with a clean, lint free, cotton wiping cloth. Wet the cloth with FMS™ until it is damp but not dripping.

2. Wipe a smooth, wet film over the entire mold surface. For larger molds, apply FMS™ to the surface one section at a time starting at one end and working towards the other. Using a clean cloth, wipe off the area that was just treated to obtain a smooth thin wet layer.
3. Allow a minimum of 15 minutes before applying next coat. New molds require 1 to 2 coats of sealer.
4. **NOTE:** Changes in temperature will affect solvent dry time. At temperatures below 18°C, waiting time between wiping on and drying off can be slightly longer than 20 seconds. At higher than normal temperatures (greater than 35°C) the wait time is significantly reduced and can be as quick as 1 to 2 seconds. In these conditions it is also advisable to reduce your wipe area to eliminate streaking due to the increased solvent evaporation and polymer cure times. A general guideline is to wait until the edges of the wiped area begins to creep inwards indicating the evaporation has just begun. Wipe from the outside and slowly work your way towards the center. Light hand pressure is all that is needed. No hard rubbing required. change cloth frequently to ensure proper drying of the mold. On small molds, allow up to 15 minutes between coats. If one coat takes more than 15 minutes, simply go back to starting point and begin to apply next coat.
5. Allow the final coat to cure for 20 minutes at 20°C.

**Loctite Material Specification<sup>LMS</sup>**

LMS dated February 07, 2007. 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**

The product is classified as flammable and must be stored in an appropriate manner in compliance with relevant regulations. Do not store near oxidizing agents or combustible materials. Store product in the unopened container in a dry location. Storage information may also be indicated on the product container labelling.

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

Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. 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 data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, **Henkel Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits.** The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Henkel Corporation patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. This product may be covered by one or more United States or foreign patents or patent applications.

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Reference 0.0