



# 710-LV™

March 2008

## PRODUCT DESCRIPTION

710-LV™ provides the following product characteristics:

<b>Technology</b>	Mold Release
<b>Appearance</b>	Clear colorless liquid <sup>LMS</sup>
<b>Chemical Type</b>	Solvent Based Polymer
<b>Odor</b>	Solvent
<b>Cure</b>	Room temperature cure
<b>Cured Thermal Stability</b>	≤400 °C
<b>Application</b>	Release Coatings
<b>Application Temperature</b>	13 to 41 °C
<b>Specific Benefit</b>	<ul style="list-style-type: none"> <li>• High slip</li> <li>• High gloss finish</li> <li>• Reduced VOCs</li> <li>• No mold build-up</li> <li>• Non-contaminating transfer</li> </ul>

710-LV™ is a reduced VOC semi-permanent mold release agent. This product releases epoxies (thermosets and prepregs), polyester resins, thermoplastic compounds, and is specifically formulated for high performance composite materials.

## TYPICAL PROPERTIES OF UNCURED MATERIAL

Specific Gravity @ 25 °C 0.809 to 0.817<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.

#### Sealing New/Repaired Molds:

Fully cured previously unused molds should be sealed before use. This can be accomplished by applying one to two coats of a Frekote® mold sealer, following the directions for use instructions

## Directions for use

1. Apply 710-LV™ with a clean, lint free cotton or non-woven wiping cloth. Wet the cloth with 710-LV™ until it is damp but not dripping.
2. Wipe or spray on a smooth, thin, continuous, wet film. Avoid wiping or spraying over the same area that was just coated until the solvent has evaporated. If spraying, hold nozzle 20 to 30cm from mold surface. It is suggested that small areas be coated, working progressively from one side of the mold to the other.
3. Initially, apply a minimum of two coats, allowing 5 to 10 minutes after each application for complete solvent evaporation. The film should be dry and not feel tacky.
4. Allow the final coat to cure for 15 to 20 minutes at 25°C.
5. Aerosols may sometimes leave a matte surface finish. To enhance gloss, use a lint free cotton or a non-woven wiping cloth to gently buff up the dry film.
6. Re-coating once, after the first few initial pulls enhances performance. Maximum releases will be obtained as the mold surface becomes conditions to 710-LV™.
7. When any release difficulty is experienced, the area in question can be "touched-up" by re-coating the entire mold surface or just those areas where release difficulty is occurring.

## Mold Touch up

Touch up coats should only be applied to areas where poor release is noticed and should be applied using the same method as base coats. This will reduce the possibility of release agent or polymer build-up. The frequency of touch ups will depend on the polymer type, mold configuration, and abrasion parameters.

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

LMS dated March 29, 2006. 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**

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$

$\text{kV/mm} \times 25.4 = \text{V/mil}$

$\text{mm} / 25.4 = \text{inches}$

$\mu\text{m} / 25.4 = \text{mil}$

$\text{N} \times 0.225 = \text{lb}$

$\text{N/mm} \times 5.71 = \text{lb/in}$

$\text{N/mm}^2 \times 145 = \text{psi}$

$\text{MPa} \times 145 = \text{psi}$

$\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$

$\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$

$\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$

$\text{mPa}\cdot\text{s} = \text{cP}$

**Trademark usage**

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Reference 0.0

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