

LOCTITE[®] MR 5412

Known as LOCTITE[®] Contact Adhesive
October 2015

PRODUCT DESCRIPTION

LOCTITE[®] MR 5412 provides the following product characteristics:

Technology	Solvent based
Chemical Type	Neoprene rubber
Appearance	Yellow liquid ^{LMS}
Cure	Air dry
Application	Bonding-maintenance
Specific Benefit	<ul style="list-style-type: none">• Repositionable after initial assembly• Fast, high strength bonds• Waterproof

LOCTITE[®] MR 5412 is a contact cement used for all types of weatherstripping, porous and non-porous surfaces and general purpose bonding. Typical applications include bonding weather stripping, insulation, rubber and trim to wood and metal.

TYPICAL PROPERTIES

Specific Gravity @ 25 °C	0.88
Flash Point - See SDS	
Viscosity, Brookfield - RV, 25 °C, mPa·s (cP): Spindle 4, speed 20 rpm	6,000 to 10,000 ^{LMS}
Solids/Non-Volatile Content, %	30 to 34 ^{LMS}
Weight Per Gallon, lbs/gal	7.01 to 8.56 ^{LMS}

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).

Where aqueous washing systems are used to clean the surfaces before bonding, it is important to check for compatibility of the washing solution with the adhesive. In some cases these aqueous washes can affect the cure and performance of the adhesive.

This product is not normally recommended for use on plastics (particularly thermoplastic materials where stress cracking of the plastic could result). Users are recommended to confirm compatibility of the product with such substrates.

Directions for use:

1. Clean surfaces thoroughly. Use abrasives to remove any powdery mold release from new weatherstripping.
2. Apply a thin, even film to both surfaces.
3. Allow to dry tacky (3 to 4 minutes).
4. Bond the two surfaces together and apply enough pressure to produce uniform contact.
5. **NOTE:** The early strength of LOCTITE[®] MR 5412 is enough to hold most parts together. However, maximum strength is obtained after the adhesive is completely dry. Aging of the bond and exposure to moderate heat increases strength.

Loctite Material Specification^{LMS}

LMS dated March 30, 1998. 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. 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. Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation 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

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

Reference 0.1

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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