

# LOCTITE<sup>®</sup> SF 7091™

Known as LOCTITE<sup>®</sup> 7091<sup>™</sup> December 2016

## PRODUCT DESCRIPTION

LOCTITE<sup>®</sup> SF 7091<sup>™</sup> provides the following product characteristics:

Technology	Primer for LOCTITE <sup>®</sup> anaerobic adhesives and sealants
Chemical Type	Organocopper compound
Solvent	Reactive methacrylate monomer
Appearance	Blue liquid <sup>LMS</sup>
Viscosity	Low
Cure	Copolymerization
Application	Anaerobic surface primer

LOCTITE<sup>®</sup> SF 7091<sup>™</sup> is a reactive monomer based "solvent free" primer for use with LOCTITE<sup>®</sup> anaerobic products for difficult to bond applications where galvanized steel or zinc electroplated surfaces are involved. This product was specifically formulated for increasing bond integrity on dichromated surfaces.

## **TYPICAL PROPERTIES**

Specific Gravity @ 25 °C	1.03
Flash Point - See SDS	
On Part Life, hours	≤1

# **TYPICAL PERFORMANCE**

Fixture time and cure speed achieved as a result of using  $LOCTITE^{\$}$  SF  $7091^{\intercal}$  depend on the adhesive used and the substrate bonded.

Fixture Time, ISO 4587, minutes:

Steel using LOCTITE<sup>®</sup> 326<sup>™</sup>,

two side primed

≤4<sup>LMS</sup>

(Fixture time is defined as the time to develop a shear strength of 0.1 N/mm²)

#### **GENERAL INFORMATION**

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

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

Under no circumstances should activator and adhesive be mixed directly as liquids.

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:

- Apply the primer by drops on one or both mating surfaces to be bonded. Contaminated surfaces may need special cleaning or degreasing prior to priming to remove any dissolvable contamination. If only one side can be primed, apply to the more difficult to bond surface.
- For small gaps, treatment of only one surface may be adequate. If the surfaces to be bonded are porous, or if the gaps are large, for best results apply the primer to both surfaces. Over application must be carefully avoided as this will adversely effect bond integrity.
- 3. The primer will not dry and will remain active for up to 1 hour after application.
- Apply the Loctite anaerobic product to one or both surfaces and assemble parts immediately. If primer is applied to one surface only, apply adhesive to the non-primed surface.
- Where possible, move surfaces in relation to each other for a few seconds on assembly to properly distribute the adhesive and for maximum activation..
- Secure the assembly and await fixturing before any further handling.

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

LMS dated September 1, 1995. 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

(°C x 1.8) + 32 = °F kV/mm x 25.4 = V/mil mm / 25.4 = inches µm / 25.4 = mil N x 0.225 = lb N/mm x 5.71 = lb/in N/mm² x 145 = psi MPa x 145 = psi N·m x 8.851 = lb·in N·m x 0.738 = lb·ft N·mm x 0.142 = oz·in mPa·s = 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.

Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

In case products are delivered by Henkel Belgium NV, Henkel Electronic Materials NV, Henkel Nederland BV, Henkel Technologies France SAS and Henkel France SA please additionally note the following:

In case Henkel would be nevertheless held liable, on whatever legal ground, Henkel's liability will in no event exceed the amount of the concerned delivery.

In case products are delivered by Henkel Colombiana, S.A.S. the following disclaimer is applicable:

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. 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.

Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

In case products are delivered by Henkel Corporation, Resin Technology Group, Inc., or Henkel Canada Corporation, the following disclaimer is applicable:

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.

**Trademark usage:** [Except as otherwise noted] All trademarks in this document are trademarks and/or registered trademarks of Henkel and its affiliates in the U.S. and elsewhere.

Reference 1.2