



# LOCTITE<sup>®</sup> 7503<sup>™</sup>

December 2006

## PRODUCT DESCRIPTION

LOCTITE<sup>®</sup> 7503<sup>™</sup> provides the following product characteristics:

<b>Technology</b>	Aqueous Based
<b>Chemical Type</b>	Synthetic latex in aqueous solution
<b>Appearance</b>	Gray, Green
<b>Components</b>	One component - requires no mixing
<b>Solubility in Acetone</b>	Partially soluble
<b>Solubility in Water</b>	Miscible, partially soluble
<b>Cure</b>	Dries
<b>Application</b>	Rust inhibitor
<b>Specific Benefit</b>	<ul style="list-style-type: none"> <li>● Converts and stops rust</li> <li>● Good for all ferrous substrates</li> <li>● Lead free</li> <li>● Non-flammable</li> </ul>

LOCTITE<sup>®</sup> 7503<sup>™</sup> is a rust treatment product for iron and steel, which dries at room temperature. This product is a synthetic latex in an aqueous solution, which converts rust (red) into a black, stable complex and provides a protective coating to keep moisture and oxygen away from the surface. The dry coating is sandable, which inhibits further corrosion and acts as a primer for subsequent painting with most known automotive paints. LOCTITE<sup>®</sup> 7503<sup>™</sup> is suitable for small scale rust treatment and protection of all ferrous substrates in industrial, automotive, agricultural and marine environments. It is particularly suitable for treatment of small rusted spots on cars.

## TYPICAL PROPERTIES

Specific Gravity @ 25 °C	1.28
Flash Point - See MSDS	
pH @ 25 °C	3.3 to 3.7
Viscosity, Brookfield - LVT, 20 °C, mPa·s (cP):	
Spindle 3, speed 60 rpm	700 to 1,000

## GENERAL INFORMATION

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

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

## Directions for use

### 1. Surface Preparation:

Surface must be clean, dry and free of dirt, oil, grease, etc. In order to allow the product to react with rust, any coating (paint, primer, etc.) as well as loose or flaky rust should be removed by mechanical abrasion (sanding, wire brushing, etc.). Only conversion of firmly bonded rust will result in durable protection. Clean surface again after mechanical abrasion

### 2. Application Conditions:

LOCTITE<sup>®</sup> 7503<sup>™</sup> may be applied when surface and air is between 10 °C minimum and rising and 30 °C maximum and falling. Reaction is slower at lower temperatures. If temperature is too hot, film may surface and bubble. High humidity is beneficial; it slows drying but assists rust conversion. LOCTITE<sup>®</sup> 7503<sup>™</sup> should not be applied in conditions of condensing humidity (e.g. fog, dew), on ice, in rain or in heavy sea (salt) spray atmospheres. Steel surfaces may be damp but not wet (i.e. continuous visible film of water). Do not apply LOCTITE<sup>®</sup> 7503<sup>™</sup> to surface in direct sunlight.

### 3. Application Method:

Shake the container thoroughly before use. Using a brush, apply a uniform coat of product to the metal surface. On rough surfaces with deep pitting, work the liquid well into the metal. The first coat will start to develop a black color with minutes, indicating a successful conversion process. Any areas, which do not turn black, should be retreated. The second coat will also become satin black in appearance.

The coated surface will be dry within and sanding can commence. Fine abrasive is recommended to achieve a fine surface suitable for painting. Allow the surface to completely dry (minimum of 24 hours) before applying the topcoat (paint or similar).

### 4. Clean-up

Dried LOCTITE<sup>®</sup> 7503<sup>™</sup> is extremely difficult to remove. Spatters should be removed as they occur. Clean application tools immediately after use with mild detergent and cold water. If the product is spilled on clothes, wash out clothes before product dries using cold water and a mild detergent. Once dried, solvents such as Loctite<sup>®</sup> Gasket Remover or any other paint remover will be required to remove the dried coating. Mechanical abrasion may also be required.

LOCTITE<sup>®</sup> 7503<sup>™</sup> should be topcoated with products known to be resistant to the environment expected. Non-coated LOCTITE<sup>®</sup> 7503<sup>™</sup> may start whitening, blistering or flaking the latex film when in continuous contact with water, solvents or other chemicals.

As with all paint systems, a test patch is recommended.

### Not for product specifications

The technical data contained herein are intended as reference only. Please contact your local quality department for assistance and recommendations on specifications for this product.

**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.

Reference 0.0

**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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