

LOCTITE® SF F720

Known as LOCTITE® Color Guard® Coating
September 2015

PRODUCT DESCRIPTION

LOCTITE® SF F720 provides the following product characteristics:

Technology	Solvent based
Chemical Type	Naphtha, rubber solvent
Appearance	Heavy liquid
Viscosity	Flow similar to SAE 60 Motor Oil
Cure	Air dry
Application	Coating
Specific Benefit	<ul style="list-style-type: none">• Highly flexible• Chemical resistant• Resistant to weathering• Resistant to salt spray• Will not crack or chip• Available in yellow, blue, black, red

LOCTITE® SF F720 is a solvent based, modified thermoplastic liquid coating in various colors. It dries to a durable, flexible, rubber-like protective coating. This product coats metal, most plastics, glass, epoxy glass, concrete, fabric, foam rubber, fiberglass, masonry, rubber, and wood. Typical applications include lab tongs, valve handles, rope ends, electrical connections, pipe hangers, battery terminals, tools, sheet metal and emergency handles. This product is typically used in applications with an operating range of -35 °C to 95 °C (30F to 200F).

TYPICAL PROPERTIES OF UNCURED MATERIAL

Specific Gravity @ 25 °C	0.92 to 0.94
Coverage, 65 µm (2.5 mil)	17 m ² per 3.8 liters (180 ft ² per gallon)
Flash Point - See SDS	

TYPICAL PROPERTIES OF CURED MATERIAL

Physical Properties:

Shore Hardness, ISO 868, Durometer A	70
Elongation, ISO 527-2, %	450
Tensile Strength, ISO 527-3	N/mm ² 17.9 (psi) (2,600)

Electrical Properties:

Dielectric Breakdown Strength, IEC 60243-1, kV/mm	11.8
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GENERAL INFORMATION

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

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

Directions for use:

Surface Preparation:

1. To maximize bond strength, clean and roughen surface with steel wool or fine abrasives to increase adhesion (suggested for flat metal surfaces and simple design).
2. A high grade zinc oxide (paint) primer can also be used to improve adhesion.

Color Guard Application

1. Dipping

1. Dipping will always give you the best results and most uniform coating. LOCTITE® SF F720 is ideal for dipping small parts - tool handles, rope ends, brackets, knobs, and valve handles. Larger packages can be purchased for dipping large or multiple objects.
2. Surfaces to be coated must be cleaned. Use of Loctite® SF 7070 is recommended to eliminate grease, oil and dirt. Rust or loose paint can be sanded or wire brushed as needed.
3. Before dipping object, devise a method to hang object to dry - string, wire or a clamp are suggested.
4. DO NOT APPLY IN DIRECT SUNLIGHT OR UNDER WINDY CONDITIONS. SLOWLY immerse item and SLOWLY withdraw (approximately 2.5 cm every 5 seconds). Coating will be uneven, sag or drip when object is withdrawn too rapidly.
5. Hang part to dry. Do not hang above an open can of LOCTITE® SF F720. Vapors will inhibit proper drying and dripping may results. Allow 20 minutes between coats. Drying time @ 25°C is approximately 4 hours for each coat applied.

2. Spraying - Industrial

1. For large applications, use an industrial airless gun or pressure pot gun. Do not use a Siphon Gun.
2. Pressure pot spray setting is 20 psi and gun pressure is 40 to 60 psi.
3. Hold gun 25 to 30 cm away from surface and apply a uniform wet coat.
4. Several coats may be applied to achieve the desired thickness - two to three coats are recommended for

a 12 mil thickness. Allow 20 minutes between coats. Drying time @ 25°C is approximately 4 hours for each coat applied.

5. Spray equipment can be cleaned with naphtha.

3. Brushing

1. Brushing should be reserved for applications that can neither be dipped or sprayed. Brushing offers the least desirable results.
2. Dilute LOCTITE® SF F720 to desired consistency with naphtha (1 part naphtha to 2 parts LOCTITE® SF F720 is recommended).
3. For metal surfaces, clean and roughen with steel wool or fine abrasives to increase adhesion of the LOCTITE® SF F720, or use high grade zinc oxide (paint) primer.
4. Brush surface in one direction only. Of the three methods of coating parts, brushing offers the least desirable results. You may find that the surface is properly protected, but the appearance of the coating may be irregular.
5. Several coats are recommended for maximum protection. Allow 20 minutes between coats. Drying time @ 25°C is approximately 4 hours for each coat applied.
6. Brush can be cleaned with naphtha.

Subsequent Application

1. Once applied, LOCTITE® SF F720 does not have to be removed for additional coats. New coats will fuse to old coats during air drying.

Clean up

1. Cured LOCTITE® SF F720 may be wiped clean with Loctite® SF 7070, or naphtha.

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.

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 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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