Technical Data Sheet

LOCTITE® SF 7460™

January 2018

PRODUCT DESCRIPTION

LOCTITE® SF 7460™ provides the following product characteristics:

Technology	Polyurethane
Chemical Type	MDI Prepolymer
Appearance	Brownish, Transparent
Cure	Room temperature cure
Application	Primer
Application Temperature	5 to 35°C (41 to 95°F)
Service Temperature (Dry)	130°C
Service Temperature (Wet)	45°C
Product Benefits	• High impact and wear resistance • Low viscosity • Provides protection for metal and/or concrete

LOCTITE® SF 7460™ is a one component, solvent, polyurethane based primer. It is designed to prime metal or concrete surfaces before polyurea coating products like Loctite® PC 7280™ or Loctite® PC 7282™. It is also used to prime existing polyurea coating for repairs or recoat time greater than 8 hours. This product hardens in thin layers by absorbing the humidity from the air or from the substrate in the case of concrete. This wear and impact resistant film is visible under UV light.

.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Density @ 20 °C, ISO 2811-1, g/cm³	0.99 to 1.02
Viscosity @ 25°C, mPa·s (cP)	100 to 200

TYPICAL CURING PERFORMANCE

Curing Properties

Pot life @ 23 °C, hours	12
Tack Free Time @ °C, minutes:	
Steel	1
Concrete	0.2 to 1
Recoat Time, hours:	
Steel	<48
Concrete	<72
Residual Moisture, %	8 to 10

TYPICAL PROPERTIES OF CURED MATERIAL

Pull-off Strength, ISO 4624:

Concrete	N/mm²	≥1.5
	(psi)	218
Steel	N/mm²	≥6
	(psi)	870

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).

Directions for use:

Surface Preparation:

1. Remove dirt, oil, grease etc with a suitable cleaner, e.g. high pressure water cleaning system using Loctite® SF 7840™ or Loctite® Natural Blue® cleaner/degreaser.
2. All skip welds, weld splatter, buckshot, and other surface roughness must be ground down and smoothed; undercuts and pinholes must be ground smooth and filled. All projections, sharp edges, high points and fillets must be ground smooth to a radius of at least 3 mm (metal) and 6 mm (concrete) and all corners must be likewise rounded to maximize product performance.
3. Blast all surfaces to be coated with a sharp edged angular grit to a depth of profile of ≥60 microns (mils), and a degree of cleanliness of Near White Metal (SIS SA 2½ /SSPC-SP 10). For immersion service, a degree of cleanliness of White Metal (SIS SA 3/SSPC-SP 5) is required.
4. After blasting, metal surfaces should be cleaned, e.g. with Loctite® SF 7063™ or Loctite® ODC Free Cleaner and Degreaser, and be coated before any oxidation or contamination takes place.
5. Metal that has been in contact with salt solutions, e.g. seawater, should be grit blasted and high-pressure water blasted, left for 24 hours to allow any salts in the metal to sweat to the surface. A test for chloride contamination should be performed.

Application:

- Ambient and substrate temperature range: 5 to 35 °C.
- Relative humidity: <98 %; substrate temperature must always be 3 °C higher than the dew point.
- Ideal product application is to use roller or air pressure / airless spray. The compressed air needs to be free of oil and water.

- Minimum film thickness per coat: 30 to 100 µm.
- This primer must be tack free before applying the coating Loctite® PC 7280™ or Loctite® PC 7282™.
- Maximum recoat time is 48 hours.

Inspection

- Use a UV lamp to see if primer was applied correctly. The product will be visible as yellowish-transparent under UV light.

Coverage

- Steel: To achieve the recommended 100 µm (0.004 in) thickness, the coverage rate will be 10 m² (12 yd²) for 1 kg (2.2 lb) excluding overthickness, repair, etc.
- Concrete: To achieve the recommended 250 µm (0.01 in) thickness, the coverage rate will be 4 m² (4.8 yd²) for 1 kg (2.2 lb) excluding overthickness, repair, etc.

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. Material removed from containers may be contaminated during use. Do not return liquid to original container. Storage information may be indicated on the product container labeling. **Optimal Storage: 10 °C to 30 °C. Storage below 10 °C or greater than 30 °C can adversely affect product properties.**

Henkel cannot assume responsibility for product which has been contaminated or stored under conditions other than those recommended. 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

Reference 0.1