



## MI-15® Topcoat

MI-15® Topcoat is a tough, fiber filled elastomeric material that extends the life of the thermal protection materials. MI-15® Topcoat is durable and abrasion resistant which provides outstanding protection of the underlying insulation against hot hydraulic and other aircraft fluids. MI-15® Topcoat is highly cost effective compared to other protective materials, proving its value on commercial jet airliner fleets everyday. MI-15® Topcoat is applied by spraying, with a typical application thickness of twenty thousandths of an inch.

### MI-15® Topcoat Material Availability:

1 gallon kits

### Typical Uncured Properties:

Color	White
Specific Gravity	0.9±0.05
Shelf Life	6 months @70°±10°F
Pot Life	1 hour in closed container
Solids Content (%)	65

### Typical Cured Physical Properties:

Density (lb/ft3) Type I	70 ±2
Tensile Strength (psi)	> 450
Hardness (Shore A)	> 50
Tear Strength (lb/in)	129
Shear Strength (psi)	> 60
Elongation (%)	> 24
Emissivity	0.901 @ 75°F

### Typical Cured Thermal Properties:

Thermal Conductivity (Btu/h-ft-°F)	0.1
Specific Heat (Btu/lb-°F) @ 100°F	0.26
Enthalpy (Btu/lb) @ 200°F	50
Ablation Temperature (°F)	950
Ther. Expansion (in/in) 0°-600°F	0.0088
Continuous Use Temperature (°F)	600

### Chemical Exposure:

MI-15® Topcoat has exhibited protection capability of the underlying insulation for up to 30 days when exposed to the following fluids:

- Jet Fuel (JP4 & AL)
- Lube Oil (Exxon 2380)
- Hydraulic Fluid (Skydrol)
- Anti-icing (PPG & IPA)
- Alkaline Cleaning Fluid
- Salt Water
- Solvents (MEK, TCE, Heptane)

### Processing Equipment:

Pressure Pot	Binks No. 80-254 or equivalent
Spray Gun	Binks Model 2001 or equivalent
Fluid Needle/Nozzle	Binks No. 567SS/No. 67SS
Air Nozzle	Binks No. 67PB
Hoses	3/8 in. ID Nylon or Teflon lined
Gloves	Polyethylene or Polypropylene

*Note: Do not use rubber or vinyl plastic materials (i.e. gaskets, hoses, seals, gloves, etc.) because these materials may inhibit the cure of MI-15® Topcoat.*

### Mixing of MI-15® Topcoat:

MI-15® Topcoat is supplied in pre-measured kit form.

Thoroughly mix Part A by itself on paint shaker or a high speed mixing blade. Add the Part B to the Part A and thoroughly blend. Place immediately into spray pot and agitate.

If less than a whole kit is desired, the kits can be broken down by mixing at a ratio of 100: 0.5 parts by weight for the pre-mixed Part A to the Part B.

*Note: Use of an eyedropper may be desired for measuring the small quantities of the Part B.*

### Application of MI-15® Topcoat:

Lightly sand substrate followed by dry nitrogen dusting of dry cloth wipe. Apply PR-1200 silicone primer and allow to cure according to vendor recommendations. Set pot pressure to 20±5 psi and atomization pressure to 40±10 psi and establish spray pattern. Part/Gen distance should be approximately 6-8 inches.

Apply MI-15® Topcoat in subsequent layers of approximately 5-10 mils each until desired thickness is achieved. Allow solvent to flash-off between coats.

Allow coating to cure 24 hours @ 75±5°F with a relative humidity of 30% minimum.