



**H.B. Fuller**

H.B. Fuller Company  
P.O. Box 64683  
St. Paul, MN 55164-0683

**FH1270**  
PRODUCT NUMBER

Page 1 of 4

## TECHNICAL DATA SHEET

**URALITE FH1270**

**ELECTRICAL PROTECTIVE COATING**

### DESCRIPTION

URALITE FH1270 is a two-component, non-toxic, high solids, thermosetting, polyurethane film. FH1270 is used as an insulating compound for coating printed circuit assemblies.

FH1270 conforms to Raytheon's spec HMS #16-1847 Rev. L, Type II, Class 1, high solids brush application.

### PHYSICAL PROPERTIES AND GENERAL INFORMATION

Property	Part A	Part B	Blend
BLENDING RATIO BY WEIGHT	66	100	
COLOR	YELLOW	COLORLESS	YELLOW
COLOR MODIFIER	LIGHT		LIGHT
DENSITY, ASTM D0792, WEIGHT PER U.S. GALLON (lb-mass/gal)	7.91	9.4	8.75
GEL TIME (83 GRAMS 23C) (hour)			> 6
ODOR	ESTER-LIKE	SOLVENT	
SHELF LIFE (month)	12	12	
SOLID CONTENT (NON-VOLATILES), TMWB052, SOLIDS (percent)	75	60	
SPECIFIC GRAVITY, D792/D1475, SPECIFIC GRAVITY	0.95	1.13	
TACK-FREE TIME, TMTS074, TACK FREE TIME (93C) (minute)			25 - 30
VISCOSITY (TMTS001 (25C)) (cP)	500	300	300
VISCOSITY FLOW INDEX RATE, TMSC077, VISCOSITY, ZAHN CUP (#2) (second)			36 - 44

### ADDITIONAL INFORMATION

Solvent System	PM Acetate, Toluene
Dielectric Strength	579 v/mil
Dielectric Constant at 1 MHz	3.26
Dissipation Factor at 1 MHz	0.021
Volume Resistivity	$1.9 \times 10^{16}$ ohms-cm
Surface Resistivity	$8.22 \times 10^{16}$ ohms



H.B. Fuller Company  
P.O. Box 64683  
St. Paul, MN 55164-0683

**FH1270**  
PRODUCT NUMBER

Page 2 of 4

#### **APPLICATION**

Mix the Part A and the Part B together to a homogenous consistency.

Overlap the existing coating slightly.

The pot life of the material is 75 minutes; discard any material left after this time or sooner if the material becomes too viscous.

Dry the coating at room temperature for 15 minutes minimum followed by 15 minutes minimum in an air circulating oven at 71 +/- 6°C (160 +/- 10°F).

Cool the parts to room temperature before applying to topcoat (follow top coat use instructions).

If it is impractical to oven-dry the parts, dry them at room temperature for two (2) hours minimum.

Near ultimate physical properties are normally attained after three (3) days at room temperature (25°C). Curing may be accelerated by heating for 2 to 3 hours at 80°C (177°F).

#### **SHELF LIFE and STORAGE**

Shelf life is from date of shipment unless indicated otherwise. Store materials in a cool, dry place off the floor on a pallet or shelf between 16-32°C (60-90°F).



H.B. Fuller Company  
P.O. Box 64683  
St. Paul, MN 55164-0683

FH1270  
PRODUCT NUMBER

Page 3 of 4

#### LIMITED WARRANTY AND TERMS

H.B. Fuller Company ("Fuller") warrants that, for a Warranty Period of one year (or the period specified on the applicable Technical Data Sheet, whichever is less) from the date of shipment from Fuller to the Initial Purchaser, that this Fuller product was manufactured in accordance with Fuller's specifications in effect on the date of manufacture. These specifications are available upon request. This Warranty does not cover test data, or any defects, damages or other harms caused to any extent or in any way by failure to follow applicable Fuller instructions, if any, or abuse or misuse of the product.

**WARRANTIES DISCLAIMED** -- THE WARRANTY STATED IN THE PARAGRAPH ABOVE IS IN PLACE OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. Fuller EXPRESSLY DISCLAIMS ANY OTHER WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. ALTHOUGH Fuller MAY HAVE SUGGESTED THE PRODUCT OR DEVELOPED THE PRODUCT AT THE PURCHASER'S REQUEST, IT IS THE PURCHASER'S RESPONSIBILITY TO TEST AND DETERMINE THE SUITABILITY OF THE PRODUCT FOR THE PURCHASER'S INTENDED USE AND PURPOSE, AND PURCHASER ASSUMES ALL RISK AND LIABILITY WHATSOEVER REGARDING SUCH SUITABILITY.

**LIMITATIONS OF REMEDIES AND DAMAGES** -- FOR ANY VALID CLAIM PRESENTED UNDER THE LIMITED WARRANTY, Fuller WILL REPLACE THE PRODUCT, OR AT ITS OPTION, REFUND THE PURCHASE PRICE. THIS REPLACEMENT/REFUND REMEDY IS THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY AGAINST Fuller. THE PURCHASER AGREES THAT NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO PURCHASER FOR CLAIMS ARISING OUT OF ANY USE OF THE PRODUCT REGARDLESS OF THE LEGAL THEORY (CONTRACT, TORT OR OTHER). IN NO EVENT WILL Fuller BE OBLIGATED TO PAY DAMAGES TO PURCHASER IN ANY AMOUNT EXCEEDING THE PRICE THAT THE PURCHASER PAID FOR THE PRODUCT.

**LIMITATION OF ACTIONS AND VENUE** -- Any claim made or action commenced by Purchaser under Fuller's limited warranty as set forth herein must be brought within one year from the date of shipment from Fuller to the Purchaser. Purchaser agrees that all disputes arising from Fuller's sale of product to Purchaser shall be brought, if at all, in and before a court located in the State of Minnesota, to the exclusion of the courts of any other state.

**CONDITIONAL ACCEPTANCE** -- Fuller's acceptance of Purchaser's order for this product is expressly conditional on Purchaser's assent to terms and conditions set forth herein.

---

**ADEQUATE TESTS:** The information contained in this bulletin we believe is correct to the best of our knowledge and tests. The recommendations and suggestions herein are made without guarantee or representation as



**H.B. Fuller**

H.B. Fuller Company  
P.O. Box 64683  
St. Paul, MN 55164-0683

**FH1270**

PRODUCT NUMBER

Page 4 of 4

to results. We recommend that adequate tests be made in your laboratory or plant to determine if this product meets all of your requirements.