

AMEETUFF INSULATING VARNISH –AIR DRYING

Advantages:

Fast drying. Good bonding, good moisture resistance. Deep penetration

Resistant to hot transformer oil / mild acids/alkalis.

Areas of applications:

Standard motors, fans, field coils, small transformers and chokes,.

Physical properties:

DESCRIPTION:

CLEAR / RED Insulating Varnish is a general purpose, high gloss, air drying enamel Recommended for use as a finish coat to Class 155 winding or electrical apparatus. It is Designed for the protection and sealing of insulated surfaces against deterioration by Exposure to the corrosion action of oils, moisture, acids and alkali. It is manufactured using special resins and processing techniques in pigment dispersion, producing an Insulator requiring Little Stirring even after long periods of storage.

If desired, it may also be cured @ 250 - 275° F to speed up drying time.

It cures to a smooth, glossy film possessing the following properties:

EXCELLENT FLEXIBILITY

GOOD DIELECTRIC STRENGTH

EXCELLENT CHEMICAL AND MOISTURE RESISTANCE

EXCELLENT ADHESION

TYPICAL PROPERTIES:

Color red/clear

Gloss High

**Weight Per lit 8.7.0 to 7.9kg.
Viscosity @ 25°C 65 – 85 sec.**

Dry Time @ 25°C

Set 30 minutes

Dry to touch 60 minutes

Hard Dry 4 – 8 hours

Hard Dry @ 135°C 30 minutes

Dielectric Strength

Dry Over 1700 volts/mil.

Wet Over 1300 volts/mil.

Adhesion to Metal Very Good

Oil Resistance Good

Recommended Thinner Xylene

Appearance Visual clear to Dark brown.

Flash point 22°C

Typical cured film properties:

Flexibility -3mm Mandrel test No crack

Reaction on copper/enameled wire JIS No reaction

Volume Resistivity ASTM D257/ohm.cm At RT-1.2 X 10¹⁵

After 168 hrs water immersion test – 1.2 X 10¹⁵

Dielectric Constant- 30V/kHz

ASTM D 150 At RT-----3.0

At 120°C-----3.5 Di-Electric Strength kV/mm

ASTM D 149At RT-----110kV/mm

After 168 hrs water immersion test – 90 kV/mm

Operating temperature -30 + 130° C

Recommended thinner : AMEETUFF-thinner

CAUTION :

AMEETUFF- air drying insulating varnish is a flammable liquid, use safety goggles, face shield etc. In case of fire use foam/CO2 or dry chemical type fire extinguishers. Inhalation and direct contact on skin to be avoided.

NOTE: FOR SAFETY INSTRUCTIONS PLEASE REFER MSDS, THE ABOVE DETAILS

HAVING NO WARRANTY. AS CONDITION OF USE IS BEYOND OUR CONTROL.

Packing: 20 lit M.S containers.

AMEETUFF TECHNICAL PAINTS INDUSTRIES

**MATERIAL SAFETY DATA SHEET
INSULATING VARNISH- air drying**

1 PRODUCT IDENTIFICATION AND COMPANY

1. Product name Insulating Varnish Air drying-B type
2. Product code AMEETUFF-AIR DRYING INSULATING VARNISH
3. Use Insulates Motors, Fans and Transformers coil .
4. Manufacturer Emergency & Technical Information

**AMEETUFF TECHNICAL PAINTS IND,
I-8 DLF INDUSTRIAL ESTATE NO 1
DLF IND AREA P -1 FARIDABAD 121006,
09811013830/91-11-26942208**

AMEETUF@yahoo.com

2. COMPOSITION AND INFORMATION ON INGREDIENTS

1. Chemical Identity ALKYD/PHENOLIC AND SOLVENTS
2. Chemical formula N O T A P P L I C A B L E

3. HAZARD IDENTIFICATION

May be Hazardous

4. FIRST AID MEASURES

- 1 Skin May Cause itching, leads uncomfortable
- 2 Eyes Severe eye irritation
- 3 Inhalation May be harmful.
- 4 Ingestion May be oral toxicity.
- 5 Other first aid information No delayed effects expected after exposure. Seek medical attention immdly if uncomfortable persists.

5. FIRE FIGHTING MEASURES

- 1 Extinguishing media Powder type

- 2 Unsuitable extinguishing media Not established
- 3 Special exposure hazards Not established
- 4 Special protective equipment standard equipment can be used
- 5 Combustion products CO₂, CO

6. ACCIDENTAL RELEASE MEASURES

- 1 Personal precautions Avoid eye, skin and cloth contact
- 2 Environmental precaution None established
- 3 Clean up procedure Clean with Thinners and soap water

7. HANDLING AND STORAGE

- 1 Handling precautions General ventilation required. Avoid eye and skin contact
- 2 Storage No special measures required. Best stored in a dry place and less than 28°C with general ventilation in closed containers
- 3 Incompatible packaging materials
None known
- 4 Other information Not established

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

- 1 Exposure controls No assigned exposure limits known
- 2 Personal protective equipment Normal apron and face mask
- 3 Respiratory protection Required fumes mask with normal ventilation is adequate.
- 4 Hand protection Suitable gloves recommended
- 5 Eye/Face protection Suitable eye protection-chemical splash goggles.
- 6 Skin protection Gloves, Coveralls, apron recommended.
- 7 Hygiene measures Wash with soap and water after handling, especially before eating, drinking or smoking.

9. PHYSICAL & CHEMICAL PROPERTIES

- 1 Appearance Brown Transparent liquid
Form liquid
Odour Phenolic odor
- 2 Safety data
pH Not applicable
Boiling point Not applicable
Melting point Not applicable
Flash Point > 38°C
Flammability Highly flammable
Auto flammability Not established

Explosive Properties Not determined
Oxidising Properties Not determined
Vapour pressure Not determined
Specific gravity Ca. @ 20 °C, 0.9 +/-0.02
Solubility
- in water Immiscible
- in solvents Soluble in few organic solvents
9.3 Other data
Vapour density Not determined
Conductivity Not determined
Viscosity 90-100 cps
Volatiles (5gm/3"/ □ /120 °C/90 Mins)
40-50%

10. STABILITY & REACTIVITY

1 Stability Stable in the absence of air
2 Reactivity Reactive in presence of air
3 Materials to avoid Polar solvents.
4 Conditions to avoid Do not handle or store near an open flame, sources of heat, or sources of ignition.
5 Hazardous decomposition Combustion will produce carbon dioxide and carbon monoxide.

11. TOXICOLOGICAL INFORMATION

1 Health Effects None known
2 Skin May cause temporary discomfort but no significant effect
3 Eyes May cause severe discomfort
4 Toxicological Data None Known
5 Ingestion May cause irritation gastro-intestinal tract.
6 Other Effects No Chronic effects known from short & long term exposures.
7 Carcinogenicity data May not be carcinogenic

12. ECOLOGICAL INFORMATION

1 Mobility Not known
2 Persistence & degradability
3 Bio accumulative potential
4 Ecotoxicity
5 Behaviour in Sewage

13. DISPOSAL CONSIDERATIONS

1 Product disposal Can not be incinerated or burnt in

accordance with national or regional regulations.

2 Packaging disposal Since packaging material does not get contaminated, it can be disposed off by usual methods in accordance with national or regional laws.

14. TRANSPORT INFORMATION

1 UN No. Applicable Symbols Applicable

2 Road & rail transport (ADR/RID)Not restricted

3 GGVS / GGVE

4 IMDG Code

5 Air transport (ICAO/IATA) May not be Restricted

15. REGULATORY INFORMATION

1 Health & safety informationon labels

C.P.L. safety phrases

C.P.L. risk phrases

2 EINECS All ingredients listed or exempt

16. OTHER INFORMATION

The information contained herein has been prepared in good faith and present state of our Knowledge. However, AMEETUFF does not guarantee the properties of the described products in terms of legal warranty regulations. The data presented here in does not purport to be the specifications. AMEETUFF will not be responsible for any damages, losses or injuries that may result from the use of any information contained here.