



# EMTEL

Enameled Wire & Cable Co.

## MATERIAL SAFETY DATA SHEET

PRODUCT NAME	:	EmTherm K501
PRODUCT DESCRIPTION	:	Air drying isolate
CHEMICAL STRUCTURE	:	Modified synthetic resin, insulating lacquer.
PLACE OF USE	:	In low and medium voltage motor bobbins, isolation of small and medium transformers.
APPLICATION AREA	:	Isolation of cotton, glass fiber winding and enameled wire.

### APPLICATION SUGGESTIONS

APPLICATION METHOD	:	DIP, SPRAY, BRUSH, VACUUM IMPREGNATION
APPLICATION CONDITIONS	:	Must be used by paying attention on the label warnings.
MIXTURE RATE	:	Single component
MIXTURE LIFE	:	*
THINNING	:	K501 thinner/ Rapid thinner
THINNING RATE	:	May be thinned up to %15-30 according to the wrapping volume.
DRYING TYPE	:	Air drying.
DRYING TIME	:	Surface drying at 20 C is 60 minutes/complete drying is 12 hours.
BAKING TIME AND CONDITIONS	:	Baking at lower temperatures may shorten the drying time.
PREPARING SURFACE	:	<b>SURFACE MUST BE PURIFIED FROM OIL AND BE CLEAN AND DRY.</b>
EXPIRATION DATE	:	According to the storage conditions, 12 months from production date.
STORAGE CONDITIONS	:	Warehouse must be cool, protected against sunlight and humidity and must be air ventilated.
PACKAGING FORM	:	1,4,17 liters Tin, 50, and 180 kg barrel.
COLOR	:	Transparent, yellow and red (SPECIFIED COLORS ARE TRANSPARENT)
VIEW	:	Transparent liquid.
BRIGHTNESS	:	Bright
DENSITY	:	0,95gr/cm <sup>3</sup> at 20 C° (DIN 51757)
SOLID	:	%50 (+5) by weight ASTM D 2679 (DIN 53216)
VISCOSITY	:	at 20 c° DIN CUP 4 and 90 seconds (DIN 53211)
HEAT RESISTANCE	:	120 c°
FLASH POINT	:	*
STRENGTH OF THE ELECTRICAL	:	It has 6 kw/mm pierce strength
VOLTAGE	:	
APPLICATION VISCOSITY	:	at 20 c° DIN CUP 4 and -30 seconds

New prepared bandages are dipped into a coating bath and waited until it absorbs the coating (until air bubbles disappear). Bandages are hanged after bath.

Because the material is air drying, they are exposed to drying in an air ventilated environment. To shorten the drying time and to improve the bottom drying, it may be baked in low temperature (60-70 c) for an hour.

Thinning operation must be performed with care. Material mustn't be thinned more than enough.

As a result of the over-thinning, solid material rate of the varnish will decrease and thus will not meet the expectations.

**HEALTH AND SECURITY: THERE IS VOLATILE SOLVENT IN THE PRODUCT. CLOSED AREAS MUST BE VENTILATED, PRODUCT MUST BE TAKEN AWAY FROM THE HEAT AND OPEN FLAME.**

**DO NOT BREATHE THE STEAM OF THE MATERIAL AND AVOID FROM SKIN AND EYE CONTACT.. IN THE EVENT OF SKIN CONTACT, SKIN MUST BE WASHED WITH HOT WATER AND SOAP.**

**SYMBOL: Xn F**

**DANGER WARNINGS:R:11-20/21/22**

**SECURITY WARNINGS:S:16-20/21-24/25-38**