harman bawa (p) ltd
Electrical Insulations Systems

BAWA VARNISH

BAWA G-TWO

Bawa G TWO is a synthetic resin based varnish with excellent flexibility, hydrolysis stability and good resistance to impregnating compounds and solvents.

Bawa G-TWO is suitable for sleeving, fabric, tape and for the production of varnished glass fiber. It can be applied by dipping or brushing method.

Bawa G TWO is a fast drying & curing varnish.

Chemical Properties

Colour appearance			Pale yellow clear liquid
Solid Contents	1g/150° C/2h	%	46 – 50
Viscosity at 30°C	By ford cup B4	S	45 - 65
Viscosity at 27°C	Cup no. 4	S	30 (typical)
Density at 20°C	DIN 51757	g/cm^3	1.03
Flash point	DIN 53213 (Closed cup)	oC	40
Recommended thinner			Thinner GC
Shelf life	If stored in original sealed container under covered storage at room temperature	Months	12

SUGGESTED CURING TIME:

For glass fibre sleeving application
(Curing in batch process in air circulating baking ovens)

30 minutes at 155+ 5oC for all initial coat
60 minutes at 155+ 5oC for final coat

For glass fiber fabric impregnation in continuous coating towers Temperatures in

(i) Solvent evaporation zone 130-150oC
(ii) Curing zone 150-170oC

Residence time in over-20-30 minutes Exact curing time and temperature need to be arrived at for particular baking over initial trials.

APPLICATION ON GLASS-FIBRE SLEEVING:

After braiding Glass-fiber sleeves, need suitable treatment as heat cleaning (250 oC/24h) on hot water cleaning and drying for best result in impregnation. Four to six coats of Bawa G-Two thinned to 20-25 sec. viscosity at RT by IS 3944/Cup 4, are necessary depending on dielectric strength requirement of varnished glass-fiber sleeving. Curing of sleeving is to be carried out at 155+ 5oC as suggested in curing schedule. Resultant impregnated glass fiber sleeving will meet all requirements of specification.

BAWA POLYMERS

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PROPERTIES OF (BAWA G-TWO) IMPREGNATED GLASS-FIBRE SLEEVING

Diameter of sleeve	**mm**	**6.0**
Wall thickness	**mm**	**0.48-0.5**
Flow		**Uniform and smooth**
Bending as received **After heat** (48h/100 oC)		**Passes** **Passes**
Stability of coating (72h/100 oC)		**Passes**
Voltage proof tests **At R.T.** (3kv/1min)		**Passes**
Voltage proof tests **At 155 oC** (1.5kv/1min)		**Passes**
Insulation resistance	**Meg.ohm**	**16 x 10^3**

PACKING

Bawa G-Two : 21 & 200 Kg. in Mild steal drum
Thinner GC : 21 & 180 Kg. in Mild steal drum

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