

## 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 <sup>3</sup>	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.

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

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

**PACKING**

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

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