



Polyester Resin IK – 800

Product name: IK 800 Unsaturated Polyester Sanding Resin with paraffin-wax.

Description: IK 800 Reacting unsaturated polyester sanding resin with paraffin wax.

Properties and application: High filling power good adhesion characteristic and easy sanding properties of IK 800 makes it suitable for use as an excellent sanding resin for wood. It's thixotropic nature enables it to be used on vertical surfaces without any sagging.

The product can be directly applied in one or two coats on woods that do not need insulation. It should be noted that the humidity of woods that do not exceed.

After sanding the product can be overcoated with Transparent or pigmented.

Typical properties of liquid resin.

Property ^{*1}	Value
Acid Value	35 ± 5 mgr KOH/gr
Appearance	Clear liquid
Solid content	58 ± 3 %
Viscosity ^{*2}	200 - 250 cps
Specific gravity	1.05 - 1.1 gr/cm ³
Gel time ^{*3}	10 – 13 min
Time to Peak	17 - 20 min
Peak exotherm	160 ± 5 °C
Shelf life	6 Month

*1 : Measurement was obtained under 25⁰C

*2 : LVT# 3-60 rpm (@) 25⁰C

*3 : Cobalt 10% , 0.1 phr MEKP A 60 , 1.5 (@) 25⁰C



TYPICAL CLEAR CASTING PROPERTIES OF CURED

PROPERTY	ST *4	TEST METHOD
Tensile strength	45 ± 5 MPa	ASTM D638
Tensile modulus	1.8 ~ 2.0 Gpa	ASTM D638
Tensile elongation	2 ~ 4 %	ASTM D638
Flexural strength	80 – 100 Mpa	ASTM D790
Flexural modulus	3.5 – 3.7 Gpa	ASTM D790
Volume shrinkage	3 - 4 %	ASTM D2566
HDT *5	60 ± 3 °C	ASTM D648
Barcol Hardness	35 ± 5	ASTM D2583

*4 : ST values based on conversion

*5 : Cure condition for HDT 24 hours at room temperature then 2 hours at 105°C

Notice in Use:

1. If IK800 is blended with cobalt salt promoters shelf life will be shortened . promoted IK800 must be used within three months.
2. The gel time of IK800 is affected primarily by catalyst concentration and temperature. The variation of cure characteristics may be caused by the variations of catalyst. Humidity pigment fillers and other additives it is recommended that the fabricators check the cure characteristic with a small quantity resin before proceeding for bulk production.
3. IK800 contains organic solvent (styrene), keep away from heat sparks and flames.
4. IK800 is a potentially reactive chemical please store it in dark and keep away from heat and direct sunshine.
5. Containers not completely emptied must be closed immediately after use.

PACKAGE:

Standard packing is 200 kg steel drum.