

## DIY SK75B Skinning Basecoat Resin (Data Sheet)

### *Epoxy Skinning / Laminating Basecoat Resin System*

The DIY SK75 Basecoat resin system is a 2 part general purpose laminating resin which exhibits excellent properties for the carbon fibre skinning process. It is made up of SK75B (Resin) which has an added black pigment and H75 (Hardner). It offers excellent flexural strength and works extremely well as a skinning resin basecoat due to its black colour which allows the carbon fibre layer above to sit on it with greatly reduced risk of seeing any colour bleed through from the component being skinned below.

#### **Mix Ratio**

**SK75B (Resin) : H75 (Hardner)**

**By weight                      100 : 50**

#### **Product Data**

Property	Units	SK75B	H75	Mix
Material	-	Epoxy resin	Formulated amine	Epoxy
Appearance	-	Clear Liquid	Amber liquid	Clear Liquid
Viscosity (25°C)	mPa.s	11000 – 14000	100 – 200	900 – 1300
Density (25°C)	g/cm <sup>3</sup>	1.10 – 1.18	0.95 – 1.00	1.04 – 1.12
Pot Life (200g, 25°C)	Minutes	-	-	30 – 50
Demould Time (4mm, 25°C)	Hours	-	-	8 – 14

#### **Cured Properties**

Properties	Standard	Units	Result (Full Cure)
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<b>Hardness</b>	BS 2782: Part 3: Method 365B	Shore D	85 – 90
<b>Linear Shrinkage</b>	500 x 50 x 10 mm	%	0.50
<b>Tensile Strength</b>	BS 2782: Part 3: Method 320B	MPa	35.0 – 40.0
<b>Elongation at break</b>	BS 2782: Part 3: Method 320B	%	7.0 – 9.0
<b>Flexural Strength</b>	BS 2782: Part 3: Method 335A	MPa	56.0 – 62.0
<b>Flexural Modulus</b>	BS 2782: Part 3: Method 335A	MPa	1000 – 1500
<b>Heat Distortion Temperature (HDT)</b>	TMA	°C	76 – 80

Above values refer to pure resin, properties of the laminate will differ and will depend on the reinforcements used.

### **Method of Use**

#### ***Preparation***

Before use ensure that the resin, fibre or filler and Gelcoat are compatible. For advice on the choice of Gelcoat and for processing instructions, please contact DIY Composites .

#### ***Mixing Instructions***

Thoroughly mix the resin and the hardener according to the indicated mixing ratio, avoiding air entrapment and make certain that the material at the bottom and sides of the container is well stirred into the centre. The mixed material should be laminated within the stated pot life.

#### ***Curing and Post Curing***

To achieve full high temperature properties, post cure treatment is recommended. After curing / demoulding the part should be heated to 80°C for 3 hours and then allowed to slowly return to room temperature. The product can be used without post cure or with partial post cure, but will not achieve full physical properties without the use of the post cure process. Always ensure that any item you have skinned can also withstand the

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temperatures within the post cure process.

### **Storage**

The DIY SK75B Skinning Basecoat resin system (SK75B & H75) should be stored in original, unopened containers between 15 and 25°C. KEEP THE PACKING TIGHTLY SEALED WHEN NOT IN USE.

If stored under the above conditions, the DIY SK75B Skinning Basecoat resin system (SK75B & H75) will have a shelf life of 12 months, from the date of production.

### **Packaging**

DIY SK75B Skinning Basecoat resin system is supplied in 0.5, 1kg and 5kg containers.

### ***Further Information***

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DIY Composites requests that the user reads, understands with the information contained herein and the current Material Safety Data Sheet.

### [DIY Composites](#)

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For any enquiries please contact DIY Composites by email at [info@diycomposites.co.uk](mailto:info@diycomposites.co.uk)