



**“Our strength is in our formulations”**

**TECHNICAL BULLETIN:**

**XRD 1014 / XHD 1015**

**DESCRIPTION:** AN UNFILLED, HEAT RESISTANT, CLEAR LAMINATING SYSTEM. ITS LOW VISCOSITY GIVES THE SYSTEM EXCELLENT WET-OUT PROPERTIES TO FIBREGLASS AND OTHER REINFORCING FIBRES. THE MATERIAL EXHIBITS HIGH PHYSICAL STRENGTHS AND MODULUS WITH MODERATE POST CURE TEMPERATURES.

**HANDLING:** (NOTES 1, 2 & 5)

<u>RESIN Part A</u>	<u>HARDENER Part B</u>	<u>MIX RATIO By Weight</u>	<u>VISCOSITY CPS</u>	<u>POT LIFE 200gms</u>	<u>DEMOULD</u>
XRD 1014	XHD 1015	100:28	300-500	1 HR	16 HRS

**CURE SCHEDULE:**(NOTE 3)

16 HRS @ R.T. + 12 HRS @ 80 °C

**OPERATING TEMPERATURE:**

100 °C

**CURED PROPERTIES:**

<u>SHRINKAGE in/in</u>	<u>HARDNESS Shore D</u>	<u>TENSILE psi</u>	<u>FLEXURAL psi</u>	<u>FLEXURAL MODULUS psi</u>	<u>ELONGATION %</u>	<u>H D T</u>
N/A	85D	10,000	17,500	450,000	5.5	90 °C

**PACKAGING**  
**Preweghed Units**

**SPECIFIC GRAVITY**  
**gm/cm<sup>3</sup>**      **lb/in<sup>3</sup>**  
1.1                      0.040

20 Kg Total      -->  
4 Kg Total      -->

18,181 cm<sup>3</sup>      1,109 in<sup>3</sup>  
3,636 cm<sup>3</sup>      222 in<sup>3</sup>

**MIXING:**

- Stir each component individually prior to mixing together.
- Mix together in recommended ratio and stir for 4-5 minutes scraping the sides of the container.

**CURING:**

- During post cure, if the tool is to be removed from the model, a support may be needed depending on the design of the tool.
- For optimum dimensional reproduction, a staged post cure is recommended.

\*\*Typical properties shown are in Laminate Form

**NOTES:**

- 1) If a filled resin, settling may occur during transportation or storage. Fillers must be remixed before use.
- 2) The mix ratio must be within  $\pm 2\%$  of the stated value and thorough mixing is required to avoid degraded properties.
- 3) Other cure schedules may yield satisfactory results however; these should be determined by the customer for his given application.
- 4) Unless otherwise specified, all measurements are taken at 22<sup>o</sup>C.
- 5) These products may trigger allergic reactions in some individuals. Prevent contact with skin; wash with plenty of soap and water if contact occurs and **Read the Material Safety Data Sheet** before using the materials. **Do Not Breathe Vapours** provide good ventilation and exercise good housekeeping at the work area.
- 6) If indicated, the values under “**Electrical Characteristics**” may be based on supplier data for products with similar compositions. They are provided only as a guide and the recipient must test each material to determine its suitability for the intended application.
- 7) If stated, the “**Guide to Operating Temperature**” is based on our experience with materials of similar chemistry and/or thermal index. The ultimate suitability of a product for a particular operating temperature is application dependent and **may change according to the demands placed upon it in service.**

**IMPORTANT**

THE INFORMATION IN THIS BULLETIN IS BASED ON DATA OBTAINED BY OUR OWN RESEARCH AND IS CONSIDERED ACCURATE. ALL INFORMATION SUPPLIED BY CROSSLINK TECHNOLOGY INC., IS FURNISHED UPON THE EXPRESS CONDITION THAT THE PERSON RECEIVING THE PRODUCT SHALL MAKE THEIR OWN ASSESSMENT TO DETERMINE ITS SUITABILITY FOR THEIR PARTICULAR PURPOSE. NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING SUCH INFORMATION, OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF; THAT ANY PRODUCT SHALL BE MERCANTABLE OR FIT FOR ANY PARTICULAR PURPOSE; OR THAT THE USE OF SUCH OTHER INFORMATION OR PRODUCT WILL NOT INFRINGE ANY PATENT.

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