

WEST SYSTEM® brand 105 Resin is a low viscosity, solvent free epoxy resin. Formulated for use with WEST SYSTEM® hardeners, it can be cured in a wide temperature range to form a high-strength solid with excellent moisture resistance. It is designed specifically to wet-out and bond with wood, fibreglass, reinforcing fabrics and a variety of metals.

The epoxy cures clear so that you can achieve a natural finish when coating with varnish. It has a relatively high flash point and no strong solvent odour, making it safer to work with than polyesters.

WEST SYSTEM® 205 Fast Hardener is a medium-viscosity epoxy curing agent. It is used, in the majority of situations, at lower temperatures to produce a moderately fast cure that develops it's physical properties quickly at room temperature, and is capable of curing down to a temperature as low as 10°C.

WEST SYSTEM® 206 Slow Hardener is a low-viscosity epoxy curing agent for use when extended working and cure time is needed, or to provide adequate working time at higher temperatures.

When mixed with 105 Resin at a 5:1 ratio, the cured resin/hardener mixture yields a rigid, high strength, moisture-resistant solid with excellent bonding and coating properties. They are not intended for clear coating.

#### MIX RATIO

1 part hardener (205 or 206) to 5 parts resin by volume and weight.

WEST SYSTEM® 207 Special Coating Hardener has been specifically developed for coating applications where an exceptionally clear, moisture resistant, natural wood finish is desired. An ultraviolet inhibiting additive improves resistance of a WEST SYSTEM® 105/207 mixture to sunlight, however, the cured epoxy surface will still require further UV protection with a quality UV filtered varnish or two pack polyurethane paint. It has been designed to work well in humid conditions.

*As a base for an adhesive mix, 105/207 is more difficult to thicken, and less cost effective for the purpose than 205 Fast or 206 Slow hardeners.*

WEST SYSTEM® 209 Super Slow Hardener is formulated for general coating and bonding applications in extremely warm and/or humid conditions, or when extended working time is desired at room temperature. It provides approximately twice the working time of 206 Slow Hardener, and forms a clear, amber-coloured solid with good physical properties and moisture resistance for bonding and coating applications. It is not intended for clear coating.

#### MIX RATIO

1 part hardener (207 or 209) to 3 parts resin by volume / 3.5 parts resin by weight

**Note:** Care should be taken when dispensing and mixing. Do not attempt to control the cure time by altering the hardener ratio. Contact ATL Composites for specific information.

UNCURED PROPERTIES					
	R105	H205 fast	H206 slow	H207 special coating	H209 super slow
Physical State	Clear liquid	Clear pale amber liquid	Clear pale yellow liquid	Clear pale yellow liquid	Clear pale yellow liquid
Viscosity mPas @ 25°C	700-1000	1000-2000	600-900	200	130
Specific Gravity g/ml @ 25°C	1.15	1.04	1.00	1.00	0.98

CURE CHARACTERISTICS				
	H205 fast	H206 slow	H207 special coating	H209 super slow
Pot life -100g @ 25°C (in air)	9 minutes	20 minutes	24 minutes	37 minutes
Thin laminate cure time @ 25°C	12 hours	17 hours	21 hours	25 hours
Minimum recommended temperature	4°C	16°C	16°C	21°C
Mix viscosity mPas @ 25°C	600	580	560	540
Shore D Hardness - 1 day	75	77	74	75
HDT after 24 hours @ 25°C	41°C	38°C	36°C	34°C
2 weeks @ 25°C	46°C	47°C	44°C	46°C
+16 hours @ 40°C	55°C	51°C	47°C	59°C
+16 hours @ 50°C	65°C	59°C	56°C	58°C

PACK SIZES							
Order Code		Order Code			Order Code		
Resin		Hardener 5:1		PACK	Hardener 3:1		PACK
RA105	500ml	HA205 HA206	100 ml	600 ml	HA207 HA209	160 ml	660 ml
RB105	1 L	HB205 HB206	200 ml	1.2 L	HB207 HB209	330 ml	1.33 L
RC105	4 L	HC205 HC206	800 ml	4.8 L	HC207 HC209	1.33 L	5.33 L
RD105	20 L	HD205 HD206	4 L	24 L	HD207 HD209	6.7 L	26.7 L
RF105	200 L	HF205 HF206	40 L	240 L	HF207 HF209	67 L	267 L

**STORAGE**

WEST SYSTEM® R105 resin and hardeners will keep for 2 years, if kept in original containers at room temperature (15°C to 32°C), and out of direct sunlight. Containers should be tightly sealed to prevent moisture absorption.

**HEALTH AND SAFETY**

WEST SYSTEM® brand R105 resin and hardeners have moderate sensitising potential, and should be kept out of the eyes and off the skin.

- Use with good ventilation and adequate safety equipment including impervious gloves and safety glasses.

- If skin contact occurs, remove contaminated clothing immediately, and wash the affected area thoroughly with ATL's 845 hand cleaner and water, avoiding the use of solvents except in the case of massive contamination.

- If eye contact occurs, immediately flush with running water for at least 15 (fifteen) minutes and seek medical advice.

• If swallowed:

**Resins** - DO NOT induce vomiting, and contact a doctor or the Poisons Information Centre.

**Hardeners** - DO NOT induce vomiting, give plenty of milk or water and contact a doctor or the Poisons Information Centre.

NOTE Our products are intended for sale to industrial and commercial customers. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability. Nothing herein shall constitute a warranty, express or implied, including any warranty or merchantability or fitness, nor is protection from law or patent to be inferred. All patent rights are reserved. The exclusive remedy for all proven claims is replacement of our materials and in no event shall we be liable for special or consequential damages. 27/05/04

