SCIGRIP® arjay™
THE FUTURE OF PERFORMANCE BONDING™

Celebrating Over 40 Years of Marine Innovation

TECHNICAL DATA SHEET

4501 J-Core

POLYESTER BONDING COMPOUND

Taking Hardtops Beyond Light Weight

4501's ultra-light weight makes it the perfect compound for bonding hardtops and small part "sandwich" bonds

Weighing in at the incredible light weight of less than 5 pounds per gallon, you will almost wonder how one of our most popular bonding compounds can possibly be as strong as it is. The secret to J-Core's success is its unique blend of physical properties. It allows for aggressive material substitutions that can save material and labor costs in almost any application.

Reduces Overall Hardtop Weight

J-Core has been shown to reduce overall hardtop weight by as much as 25%, which can improve stability when used in today's high performance power boats.

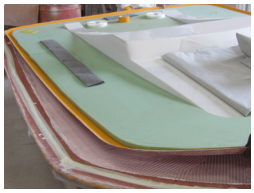
Perfect for Small Part "Sandwich" Bonds

The use of J-Core in small parts with hand laid skins is surprisingly efficient and results in light weight, superb cosmetics and an extremely low number of costly defects requiring repair.

Performance Benefits

- *Pumps great, and trowels easily*
- *Flows well under moderate clamping pressure*
- *Stays put when mold is flipped*
- *Cures with low exotherm for better cosmetics*
- *Available in higher viscosities for damming and more*

Applying J-Core to the hardtop shell



Marrying inner liner to the top shell after application

Great for other "sandwich" style bonds

ProTips & Other Resources at ArjayTech.com

- **ProTip: Managing Material Flow with J-Core (PDF)**
- **ProTip: Beyond Light Weight with J-Core (PDF)**
- **ProTip: Avoiding Print in Mold Making (PDF)**
- **ProTip: Shedding Light on Light Weight Catalyzation (PDF)**
- **4501 TDS (PDF)** *Available for download any time on our website*
- **4501 HV & XHV (PDF)** *Available for download any time on our*

RECOMMENDED FOR

Hard Tops	Other "Sandwich Bonds"

WORKING PROPERTIES

Gel Time	Reaction Time	Fixture Time	Peak Exo
28 min	45 min	73 min	150° F

TYPICAL PHYSICAL PROPERTIES *@75°F (24°C)*

Color	White
Odor	Styrene
Texture	Smooth
Weight	4.8-5.1 lbs/gallon
Shelf Life	3 months

VISCOSITY

RPM	µ Min	µ Max
2	50,000	65,000
20	18,000	28,000

TYPICAL CURED PROPERTIES *@75°F (24°C)*

Test	Average	Deviation
Tensile Elongation, %	8.2	0.32
Tensile Strength, PSI	1,060	108
Flexural Strength, PSI	6,960	314
Flexural Modulus, PSI	357,000	14,100
Compressive Strength, PSI	1,910	52.5
Lap Shear, PSI	1,100	11.0
Heat Deflection, °F	150	5.0
Linear Shrinkage, %	< 1	
Shore D Hardness	40-45	

PACKAGING & AVAILABILITY

Pails
5 Gal./19 L

ITEM# 4501

Drums
55 Gal./ 189 L

ITEM# 4502