

A Radius Compound That Keeps its Cool

2121's low exotherm means it shrinks less, preventing air voids and time consuming finish work



In recent years boat builders increasingly have designed sharp radii and style lines into their models. The challenge on the floor becomes laminating those tight radii and not leaving air voids. Plus, this has to be done without creating other problems like gel coat cracks and "print" caused by heat and excessive resin shrinkage. Arjay's Radius Compound rises to these challenges by providing a tough, resilient, low shrink substrate between the gel coat and skin laminate that will allow you to produce void free, final finish free parts.

Saves Time and Money

When using Arjay's Radius Compound, labor hours have been shown to be significantly reduced. Our studies indicate that the increased material cost is saved many times over in the reduction of hours required in both laminating and repairing the skin coat.

Performance Benefits

- Low exotherm and shrinkage for better finishes
- Reduces air voids and dry fibers in laminates
- Eliminates surface cracks and blemishes
- Maintains resiliency to resist cracks
- High impact resistance

ProTips & Other Resources at ArjayTech.com

- ProTip: Building Your Boat with Radius Compound (PDF)
- ProTip: Maximizing Labor Savings(PDF)
- 2121 TDS (PDF) Available for download any time on our website
- 5121 TDS (PDF) Available for download any time on our website

TECHNICAL DATA SHEET

2121 Radius

POLYESTER BONDING COMPOUND

RECOMMENDED FOR

Filling Tight Radii	Filling Transitioning Style lines
Bonding FRP Parts	Bedding Core
Bonding on Vertical Surfaces	Short Assembly Time Apps
General Bonding	

WORKING & TIMES (In Minutes)

Gel Time	Interval	Total	Peak Exo
18-24	16-30	34-54	200-250° F

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

Color	Tan
Odor	Styrene
Texture	Smooth
Weight	10.2 lbs/gallon
Stability	6 months

VISCOSITY

RPM	μ Min	μ Max
2	720,000	960,000
20	90,000	140,000

TYPICAL CURED PROPERTIES @75°F (24°C)

Test	Average	Std Dev.
Tensile Elongation, %	2	<1%
Tensile Strength, PSI	1620	
Flexural Strength, PSI	2160	150
Heat Deflection, °F/ °C	165/74	5
Shore D Hardness	75-85	

PACKAGING & AVAILABILITY

Pails
5 Gal./19 L



ITEM# 2121

Storage & Handling

STORAGE

To ensure maximum stability and maintain optimum properties, bonding compounds should be stored in the original closed container at temperatures below 24 C/75 F and away from heat ignition sources and sunlight. The product must be warmed up to 18 C/ 65 F prior to use so that timely curing and optimum processing can be maintained.

All storage space and containers should conform to local fire and building codes. The bonding compounds should be stored separately and away from oxidizing materials, peroxides and metal salts. Keep containers closed when not in use. Employ best practices of using first-in, first-out stock rotation.

SHELF LIFE

Shelf life is 3 months from date of shipment. Minimum shelf life performance implies the life of the product in the original, unopened container. For additional information on storage and handling, please contact your sales representative or authorized distributor.

STANDARD PACKAGING

Standard product packages include 55-gallon metal drums and 5 gallon plastic pails.

SAFETY

Read and understand the material safety data sheet before working with the product. Obtain a copy of the material safety data sheet on this product from the Arjay website, or contact your sales representative or authorized distributors.

The bonding compounds contain volatile components that are highly flammable and should be handled with care and used in well ventilated area. The product must be stored in a cool place away from source of heat, open flames or sparks. Keep containers closed when not in use. Prevent contact with skin and eyes. In case of skin contact, wash with soap and water. In case of eye contact flush with water for 15 minutes and seek immediate medical care.

DISPENSING EQUIPMENT

The pumpable versions of the bonding compounds are supplied in drums, to be dispensed with internal metered mix equipment. Most commonly used dispensing equipment is supplied by Magnum Venus Products (www.mvpind.com). GS Manufacturing (www.gsmfg.com) and Glass-Craft (www.glascraft.com) also offer similar dispensing systems.

While all Information contained herein are to the best of our knowledge accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. We suggest that the recommendations be evaluated and validated by the purchaser prior to use. In all cases it is the responsibility of the user and NOT of Arjay Technologies or SCIGRIP to determine the suitability of the bonding product and dispensing systems for its own particular purpose and use environment.

California Proposition 65 Warning: This product contains the following chemicals known to the State of California to cause cancer: Styrene Oxide, Aniline. Styrene, in the presence of air and high temperature or the prolonged exposure to a styrene/air mixture to sunlight can react to form styrene oxide.