



TECHNICAL DATA SHEET

SIROPOL 8420

ARTIFICIAL MARBLE RESIN

DESCRIPTION: SIROPOL 8420 resin is a non-promoted, fast-cure, resilient polyester. The raw materials used in the manufacture of this resin are listed as acceptable in FDA regulation Title 21 CFR 177.2420 for repeated use in contact with food subject to user's compliance with the prescribed limitations of that regulation.

PERFORMANCE:

- Exhibits superior wetting properties
- Accepts high filler loadings
- Shows less tendency to crack than conventional polyesters
- Offers rapid gel and cure

SUGGESTED USES

SIROPOL 8420 is a versatile, resilient resin, that is used in a wide-range of lamination processes - including hand-layup and infusion.

ALTERNATIVE PRODUCTS:

SIROPOL 8420-P is a promoted, high viscosity, resilient polyester providing higher mix viscosity.



VISCOSITY and Gel Time can be adjusted to meet conditions that customers may require.

TYPICAL *LIQUID RESIN PROPERTIES (25 °C)

Percent Styrene	30 - 36 %
Viscosity - Brookfield, cps spindle 3@ 60 rpm	900 – 1500 cps
Appearance	Clear
Acid Value	10 - 18
Specific Gravity	1.15
Pounds per Gallon	9.6
Flash Point Range, °C	33
Gelling Time with 1% MEKP	15-25 min

STANDARD PACKAGE: 20- Ton tank truck, 220 Kgs Standard Steel Drums

DOT LABEL REQUIRED: Flammable Liquid



الشركة السعودية للراتجات الصناعية المحدودة
Saudi Industrial Resins Limited

س.ت 4030011854 - رقم العضوية 3275 جدة - رأس المال 50.000.000 مليون ريال (مدفوع بالكامل)
CR 4030011854 CC 3275 Jeddah Capital SR 50 000 000 Fully Paid

TECHNICAL DATA SHEET

SIROPOL 8420

(Continued)

TYPICAL PERFORMANCE DATA

(For guidance only)

TYPICAL CURING CHARACTERISTICS:

Resin= 100 g (Cup method)
Room temperature cure at 77 °F

Cobalt Napthenate 6%	Butanox M60	Temperature °C	Gel Time minutes	Peak Exothermic	Total Time minutes
0.5 %	1.0 %	25 °C	4.5 min	300 °F	12 min

Standard 180°F Bath - 1% Benzyl Peroxide SPI Gel

▪ Time, minutes	5
▪ Total time to Peak Exotherm, minutes	7.5
▪ Peak Exotherm, °F	355

TYPICAL PHYSICAL PROPERTIES OF CURED CASTINGS (25 °C):

Clear Castings, Base Resin at 29-31% Styrene

Property	Units	Value	Test Method
Barcol hardness	---	51	ASTM D 2583
Tensile Strength	psi	9000	ASTM D 638
Elongation %	%	2.1	ASTM D 638
Flexural Strength	psi	13000	ASTM D 790
Flexural Modulus	psi x 10 ⁶	0.6	ASTM D 790

Glass Fiber Laminates (4 ply, 2 oz mat)

Property	Units	Value	Test Method
Glass Content, %	%	40	----
Barcol hardness	---	50	ASTM D 2583
Tensile Strength	psi	10000	ASTM D 638
Flexural Strength	psi	34000	ASTM D 790
Flexural Modulus, Compressive	psi x 10 ⁶	1.35	ASTM D 790
Strength(Edgewise)	psi	23000	-----
Impact Strength, Notched Izod	ft-lb/inch	22	-----



الشركة السعودية للراتجات الصناعية المحدودة Saudi Industrial Resins Limited

س.ت 4030011854 - رقم العضوية 3275 جدة - رأس المال 50.000.000 مليون ريال (مدفوع بالكامل)
CR 4030011854 CC 3275 Jeddah Capital SR 50 000 000 Fully Paid

TECHNICAL DATA SHEET

SIROPOL 8420

(Continued)

HANDLING: SIROPOL 8420 resin contains ingredients, which could be harmful if mishandled. Contact with skin and eyes should be avoided and necessary protective equipment and clothing should be worn.

Saudi Industrial Resins Ltd., maintains Material Safety Data Sheets on all of its products. Material Safety Data Sheets contain health and safety information for your development of appropriate product handling procedures to protect your employees and customers.

Our MSDS should be read and understood by all of your supervisory personnel and employees before using SIR's products in your facilities.

RECOMMENDED STORAGE:

DRUMS:- Store at temperatures below 25°C. Storage life decreases with increasing storage temperature. Avoid exposure to heat sources, such as direct sunlight or steam pipes. Keep containers sealed to prevent moisture pickup and monomer loss. Rotate stock.

BULK: - Store in stainless steel tanks or tanks lined with epoxy or phenolic coatings. Observe precautions against heat and moisture (see above). An oxygen or dry air spurge may be desirable to keep inhibitors activated. Store at temperature below 25 °C.

COMMERICAL WARRANTY: When stored in accordance with the above conditions, Saudi Industrial Resins warrants this product to remain within specifications for three months from the date of shipment. All things being equal, higher temperature will reduce product stability; lower storage temperature will extend product stability

-----*****-----

Notice: S.I.R. makes no warranty or representation as to the suitability of the product as specified herein for any particular application. The determination of the suitability of the above specification for any particular use is solely the responsibility of the user.

All precautionary labels and notices should be ready and understood by all supervisory personnel and employees before using. Consult S.I.R. and OSHA regulations for additional safety and health information. Purchaser is responsible for complying with all applicable federal, state or local laws and regulations covering use of the product. Special attention should be given to consumer applications. Freedom to use any patent owned by S.I.R. or others is not to be inferred from any statement contained herein.