



RUSTIN RESIN

PRODUCT DATA SHEET

RS-2300-A-GENERAL PURPOSE CASTING RESIN

Applications:

This resin is especially designed for agglomerated marble or culture marble applications.

Properties:

Medium viscosity and medium reactivity.

The gel time, Gel to Peak and Peak Exotherm parameters are optimized which in turn suitable for above said applications.

Composition of the Resin:

RS-2300-A is General purpose unsaturated Polyester casting resin having medium viscosity and medium reactivity based on Orthophthalic acid and standard glycols, dissolved in styrene monomer. This resin is especially designed for agglomerated marble or culture marble applications.

Compatibility

Avoid storing the resin along with Metallic Driers, Peroxides and catalyst in the same area.

Safety:

Material Safety Datasheets of the product is available on demand.

Product Data:

PARAMETERS	UNIT	SPECIFICATION
Appearance		Clear Transparent Liquid
Color		≤1
Viscosity Brookfield, @25°C LV# 2,30 RPM	Cps	500-800
Acid Value	Mg.KOH/gm	25±3
Specific Gravity @25°C	Gm/ml	1.12±0.02
Volatile Content	%	35±3
Gel Time @25°C	Min	18-23
Peak Temperature	°C	<105
Gel to Peak	°C	25-40

Gel Time with 1.0ml Cobalt Octoate (Metal content 3%) and 1.5ml MEKP (Active Oxygen 9 ± 0.2)@25°C

Storage Conditions:

RS-2300-A should be stored in a cool and dry place away from sunlight and other sources of heat, preferably below 25°C. At higher storage temperatures, the shelf life decreases sharply. Presence of moisture also affects the storage life of the resin leads to turbidity in the resin.

Stability:

On storage under above mentioned conditions, the stability for RS-2300-A is guaranteed for 3 months

Supply Modes:

Resin is supplied in 200 kg Steel Drums.

Food and Drug:

All resins in this datasheet are manufactured from raw materials that are listed in FDA regulation Title 21 CFR 177.2420.

Mechanical Properties of Clear Cured Castings:

PROPERTIES	TEST VALUE	METHOD
Barcol Hardness	45	ASTM D 2583
Tensile Strength (MPa)	55	ISO 527-2
Flexural Strength (MPa)	100	ISO 178
Elongation at Break (%)	2.5	ISO 527-2
Heat Distortion Temperature (°C)	55	ISO 75-2
Water Absorption @25°C(after 24 Hrs.) mg	18	ISO 62

Curing Conditions:

The specimens for testing of mechanical properties are prepared by curing the resins with 0.5 ml Accelerator (3% cobalt content) and 1.0 % MEKP catalyst, added to 100 gm. of resin. The specimens are cured for 24 hours at room temperature followed by post curing for 4 hours at 80°C.

Disclaimer: Although the facts and suggestions in this data sheet are based on our own research and are believed to be reliable, we cannot assume any responsibility for performance or results obtained through the use of our product described herein in view of the many factors that may affect processing and application.

RUSTIN RESIN does not guarantee duplication of such results by third parties.

Method of Testing:

The method of testing and the tolerances are as prescribed in ISO, ASTM and BS where is not available.

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**** Gel time, Acid value and viscosity can be adjusted as per customer requirements.**