INTERPLASTIC CORPORATION
Thermoset Resins Division

W-1093V-FHN

White Vinyl Ester Fire Retardant Gel Coat

Technical Data Sheet

W-1093V-FHN is White Vinyl Ester Fire Retardant* gel coat with specially formulated resin system designed specifically for applications where resistance to flammability and corrosion is required. This product meets National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composite Production, maximum of 48% HAP for corrosion resistant gel coat.

FEATURES	BENEFITS
• HAP Content is a Maximum of 37%	• Lower emissions in the shop
• Unique Vinyl Ester Polymer	• Superior resistance to osmotic blistering, cracking due to impact and thermal cycling combined with fire retardant properties.
• High Temperature Capabilities	• Improved appearance of the gel coat surface
• Excellent Spray Characteristics	• Minimizes equipment setup and adjustment time

LIQUID PROPERTIES	RESULTS
Viscosity, Brookfield Model LV #4 Spindle @ 6 rpm, 77°F (25°C), cps	14 000 – 17 000
Thixotropic Index	4.6 – 5.8
100 grams gel coat @ 77°F (25°C), catalyzed with 2.0% DDM-9 by volume* Gel Time, min:sec	08:00 – 11:00
Percent HAPS (Styrene)	37.0 Maximum
HAPs Content, lbs/gallon	4.2 Maximum
Percent Non-Volatile	63.0 – 65.0
Weight per Gallon @ 77°F (25°C), lbs	10.6 – 11.3
Specific Gravity @ 77°F (25°C)	1.28 – 1.35
* Gel time and reactivity will vary due to the type and concentration of catalyst (peroxide), shop temperature and humidity	

TYPICAL PERFORMANCE PROPERTIES	RESULTS
Heat Distortion Temperature, ASTM D638	> 300ºF (148ºC)
Sag resistance @ 77° F (25°C), mil of wet thickness	no less than 20
Hide, mils of wet thickness	15
Material Coverage (assuming no loss) @ 20 mils of wet thickness, Sq. Ft/Gal	80.0

Application: W-1093V-FHN is formulated for spraying as supplied. It is strongly recommended that the material be mixed before use. Optimum application temperature is 65°F - 90°F (18°C - 32°C). Two coats of 8 to 10 mils each are recommended to build to a film thickness of 15 – 20 mils (0.38 – 0.51 mm). This two-step process is necessary to avoid porosity, solvent entrapment and sagging. Brushing is not recommended.

Storage and Handling: W-1093V-FHN should be stored in closed, opaque containers at temperatures not exceeding 77ºF (25ºC). Do not keep gel coat near catalyst storage areas. To avoid decomposition keep away from direct sunlight and excess heat. Refer to the Material Safety Data Sheet for further details on safety and storage.

* Vinyl ester and fire retardant based gel coats have poor UV resistance and not intended for exterior application.

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