MIRTEQ Innovative Resins

Technical Data Sheet

June 2013

MIR-810 – MIR-820

High Glass Content, Micro-fiber Infused, Thermoset Fairing Pastes

DESCRIPTION

MIR fairing pastes are strong, rigid materials that have exceptional sag resistance. The different product iterations reflect the various viscosities that are available – MIR-810 having less glass and a lower viscosity.

- MIR-810 Flowable paste with 27% glass
- MIR-815 Thicker paste with 35% glass
- MIR-820 Thick putty with 41% glass

The material can be applied up to 1/2" (12mm) thick, with no sag.

FEATURES AND BENEFITS

Micro-fiber technology

- Have isotropic strength properties
- Suitable for corner radiuses and repairs because of their strength and ability to bond with other thermoset products.
- MIR fairing pastes use a high quality vinyl ester resin backbone and have good corrosion and chemical resistance properties.
- Moisture insensitive
- Excellent workability. May be drilled or sanded.
- Cures quickly at moderate temperatures.

Glass reinforcement

- The micro-fibers are not visible and do not print through to the surface.

Additives

- Available with UV.
- Receptive to most pigments and can achieve most color shades.
- Please request all additive selections at the time of your order.

TYPICAL LIQUID RESIN PROPERTIES

Property at 77°F (25°C)	Method	Units	Value
Density	ASTM D792	g/ml	1.3 – 1.44
Viscosity			Paste / Putty
Glass Content	Formula	%	27 – 41
Styrene Content	Formula	%	22 – 27

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PROCESSING GUIDELINES

Gel Characteristics, 77°F (25°C)

	Gel Time	Peak Time	Peak Temp
2.0% DDM-9, 100 g mass	10 min	21 min	304°F (151°C)

a) This resin system is designed for use with Arkema's DDM-9 peroxide. Use only in the range of 1.5 to 2.5 percent. Use of any other initiator is not recommended.
b) This product has been optimally formulated. Do not add promoters, fillers, or other additives. If you feel that your application requires some adjustment, please contact our technical service team first.
c) Ideal application temperature is 77°F (25°C). Insufficient cure and poor strength development may occur at low temperatures. Do not use below 68°F (20°C).

TYPICAL CURED RESIN PROPERTIES

Physical Properties	Method	Units (SI)	Value	Units (US)	Value
Barcol Hardness, Ultimate (GYZJ-935 scale)	ASTM D2583	n/a	85	n/a	85
Thermal Properties					
HDT, 264 psi	ASTM D648	°C	82	°F	180

a) It is the responsibility of the end user to ensure that the material and its application is suitable for the intended use of the end-user component.
b) Properties may vary greatly depending upon the catalyzation and degree of cure.
c) Successful molders using this product will understand that the physical properties will vary depending on the method of applying the pastes and quality of the surface to which the paste is being bonded. Bonding surfaces should be clean and free of dust.

SAFETY

For industrial use only. Not for household use. Do not use this product unless you have read and understand the MSDS. This product is flammable. Keep away from sparks and sources of heat. Ground and bond all containers.

STORAGE

To ensure maximum stability and to retain optimum resin properties, resins should be stored between 68-77°F (20-25°C). Store in the original closed container. Keep closed when not in use. Store away from sources of heat. Storage areas should conform to local fire and building codes. Rotate stock on a first in, first out basis.

STANDARD PACKAGING

500 lb (227 Kg) open top drum
45 lb (20.5 Kg) pail

COMMERCIAL WARRANTY

Shelf life is three months from the date of shipment, when stored in accordance with the storage conditions above. Extended storage or storage outside of recommended conditions may cause drift in viscosity and gel times.

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NOTICE

Information presented herein has been compiled from sources considered to be dependable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. Nothing herein is to be construed as recommending any practice or any product violation of any patent or in violation of any law or regulation. It is the user's responsibility to determine for their self the suitability of any material for a specific purpose and to adopt such safety precautions as may be necessary. We make no warranty as to the results obtained by using any material and, since conditions of use are not under our control, we must necessarily disclaim all liability with respect to the use of any material supplied by us.

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