



MVS-430 A/B

Fast Set System for Structural Field Repairs

DESCRIPTION

MVS-430 is a low viscosity resin system designed for field repair applications where a fast setting material that cures very well at low temperatures is required. MVS-430 has an easy-to-use 2 to 1 mix ratio by volume which allows easy application by cartridge guns for on-site convenience. The balanced viscosities of the resin and hardener combine quickly, and are sufficiently low to enable quick penetration of thicker fabrics with ease. In tests, MVS-430 cures completely in 35°F - 40°F temperatures.

PRODUCT SPECIFICATIONS

	MVS-430 Part A	MVS-430 Part B	ASTM Method
Color	Clear Light Green	Amber	Visual
Viscosity, centipoise, @ 77°F	960 cps	875 cps	D2392
Specific Gravity, gms./cc	1.15	1.03	D1475
Mix Ratio	100 : 45 By Weight, or 100 : 50 By Volume		PTM&W
Pot Life, 250 gm. Mass @ 77°F	5 - 6 minutes		D2471

HANDLING and CURING

MVS-430 cures rapidly, so organization is in order to process the material and achieve good results. The material components do combine quite readily, so a mixing time of a minute or so will be sufficient for a good mix. Twin-tube cartridges enable very fast handling of the material to achieve quick mixing, and therefore leave as much time as possible for wetting the chosen reinforcement for the repair. MVS-430 will cure completely at ambient temperatures, and tests have shown good cures are achieved in low temperatures to below 40°F.

PACKAGING WEIGHTS

	Gallon Kit	Pail Kit	Drum Kit
MVS-430 Part A	8.75 lb.	44 lb.	440 lb.
MVS-430 Part B	4 lb.	20 lb.	200 lb.
Kit	12.75 lb.	64 lb.	640 lb.
Cartridges	Packed in 400ml Twin-Tube Cartridges Containing Approximately 1 lb Net Wt.		

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TYPICAL MECHANICAL PROPERTIES

	MVS-430 A/B	ASTM Method
Mix Ratio,	100 : 45 By Weight, or 100 : 50 By Volume	PTM&W
Color	Clear Light Green	Visual
Mixed Viscosity, centipoise	825 cps	D2393
Pot Life, 4 fl. Oz. Mass, @77°F	5 - 6 minutes	D2471
Cured Hardness, Shore D	87 Shore D	D2240
Specific Gravity, grams, cc	1.11	D1475
Density, lb./cu. Inch lb. / gallon	0.0401 9.26	D792
Specific Volume, cu. in./lb.	24.94	
Tensile Strength, psi *	32,718 psi	D638
Elongation at Break, % *	3.0 %	
Tensile modulus, psi *	1,112,794 psi	
Flexural Strength, psi *	32,181 psi	D790
Flexural Modulus, psi *	1,328,321 psi	
Compressive Strength, psi	11,121 psi	D695
Compressive Modulus, psi	425,100 psi	
Izod Impact Strength, notched	1.534	D256
Glass Transition Temperature, DMA: T _g (Peak) E' (Onset)	153.9°F 126.1°F	D4065
Water Absorption, 24 hours Immersion, %	0.35 %	D570

* These properties were derived from a 70 mil thick laminate constructed with 1 layer of 24 oz multidirectional stitched fabric with a .75 oz mat face, and 1 layer of 18 oz biaxial stitched fabric with a .75 oz mat face.

SAFETY and HANDLING

PTM&W epoxy products are made from raw materials carefully chosen to minimize or even eliminate toxic chemicals, and therefore offer the user high performance products with minimum hazard potential when properly used. Generally, the PTM&W epoxy resins and hardeners will present no handling problems if users exercise care to protect the skin and eyes, and if good ventilation is provided in the work areas. However, breathing of mist or vapors may cause allergenic respiratory reaction, especially in highly sensitive individuals. As such, avoid contact with eyes and skin, and avoid breathing vapors. Wear protective rubber apron, clothing, nitrile rubber gloves, face shield or other items as required to prevent contact with the skin. In case of skin contact, immediately wash with soap and water, followed by a rinse of the area with vinegar, and then a further wash with soap and water. The vinegar will neutralize the hardener and lessen the chances of long term effects. Use goggles, a face shield, safety glasses or other items as required to prevent contact with the eyes. If material gets into the eyes, immediately flush with water for at least 15 minutes and call a physician. Generally, keep the work area as uncluttered and clean as possible, and clean up any minor spills immediately to prevent accidental skin contact at a later time. Keep tools clean and properly stored. Dispose of trash and empty containers properly. Do not use any of these types of products until Material Safety Data Sheets have been read and understood.

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