



MVS-438 A/B

Fast-Set Paste Gap Filler & Splining Compound

DESCRIPTION

MVS-438 A/B is a fast setting paste epoxy system designed to be an in-field patching and repair material for a variety of structures. MVS-438 A/B provides excellent bonds to composites, wood, concrete and other porous surfaces and properly primed metals. The mixed material has a good non-sag viscosity for easy filling of voids and surface damage even on vertical surfaces. This material has excellent moisture resistance, so it will resist surface blushing in situations of high humidity such as morning dew, for example, and it will allow easy sanding and final finishing in those conditions.

PRODUCT SPECIFICATIONS

	MVS-438 Part A	MVS-438 Part B	ASTM Method
Color	Light Green	Translucent Amber	Visual
Viscosity,	16,400 cps	23,400 cps	D2392
Specific Gravity, gms./cc	1.19	1.06	D1475
Mix Ratio	100 : 45 By Weight, or 100 : 50 By Volume		PTM&W
Pot Life, 4 fl.oz. Mass @ 77°F	5 - 6 minutes		D2471

HANDLING and CURING

The resin and hardener components are gel-like pastes at first appearance. In reality, they are pseudoplastic liquids that thin in viscosity when stirred or mixed. The resin and hardener components combine easily and present as liquids when mixing. The mixed material forms a non-sag consistency that fills larger cracks and voids without slumping, even on vertical surfaces. The fast 5 to 6 minute pot life makes MVS-438 A/B an ideal material to apply by twin-tube static mixing. The resin and hardener flow readily and combine thoroughly in the static mixer, providing good mixing and therefore maximum cured properties. The properties in this bulletin were derived with product dispensed through Nordson Turbo 180A-824 square, 24 element static mixers.

MVS-438 A/B cures completely at room temperature, and no added heat is required for good cured properties. The product was designed for fast repairs, and the 5 - 6 minute pot life accomplishes this well. Thick sections of the material can be worked on with sandpaper or grinder within 30 - 45 minutes in warmer weather. Thinner sections at edges will take longer to harden sufficiently to sand, and in colder weather even thicker sections will harden slower. As mentioned earlier, MVS-438 A/B has built-in moisture resistance, so the sanded surface will accept primers and topcoats readily, for good long term stability of the repaired surface.

PACKAGING WEIGHTS

	Gallon Kit	Pail Kit	Drum Kit
MVS-438 Part A	8.75 lb.	44 lb.	440 lb.
MVS-438 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-438 A/B	ASTM Method
Mix Ratio,	100 : 45 By Weight, or 100 : 50 By Volume	PTM&W
Color	Translucent Light Green	Visual
Mixed Viscosity, centipoise	Non Sag Gel Paste	D2393
Pot Life, 4 fl. Oz. Mass, @77°F	5 - 6 minutes	D2471
Cured Hardness, Shore D	86 Shore D	D2240
Specific Gravity, grams, cc	1.146	D1475
Density, lb./cu. Inch lb. / gallon	0.0414 9.57	D792
Specific Volume, cu. in./lb.	24.15	
Tensile Strength, psi	6,091 psi	D638
Tensile modulus, psi	455,867 psi	
Flexural Strength, psi	13,263 psi	D790
Flexural Modulus, psi	529,477 psi	
Compressive Strength, psi	10,978 psi	D695
Compressive Modulus, psi	441,047 psi	
Glass Transition Temperature, DMA: T _g (Peak) E' (Onset)	157°F 125°F	D4065

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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