

Emecole Metro 455 Bonding Adhesive & Surface Seal

GENERAL DESCRIPTION

Emecole Metro 455 adhesive is used for bonding, sealing, and repairing a wide range of properly prepared substrates including difficult-to-adhere-to plastics, metals and concrete. This high strength, two-part, room temperature curing adhesive system is resistant when exposed to elevated temperatures, fuels, and most solvents and chemicals. It is recommended for use as a concrete crack surface sealer and is especially suited for shorter cracks. The speed of cure (8 to 15 minutes) minimizes wasted applicator down time prior to injection. The adhesive has outstanding cured strength. It can also be used as a blow hole repair material and fast setting surface port adhesive. Low odor - specially formulated for odor sensitive environments. *It is not recommended when removal is required.*

TECHNICAL DATA

PROPERTIES (UNCURED)

Emecole Metro 455	Part A	Part B	Mixed
Parts by Volume	100%	100%	_____
Color	white	green/gray	Gray
Shelf Life	1 year	1 year	_____
Pot Life (3 oz)	_____	_____	2 - 4 minutes
Gel Time (5 mil)	_____	_____	5 - 10 minutes
Mix Ratio (by weight)	1.08	1.0	1:1
Consistency	_____	_____	smooth-paste adhesive
Hardness (Shore)	_____	_____	D-69
Viscosity	15,000	20 - 40,000	NA

PHYSICAL PROPERTIES

Emecole Metro 455		Test Method
Tensile, MP a@ 23°C	25.5	ASTM D-638
Tensile Elongation	75%	ASTM D-638 modified
Youngs Modulus, MPa	517	_____
Poisson Ratio	40	_____
Glass Transition temp. centigrade	-35	_____
Density, g/cc	1.28	_____



Product Data (cont'd)

TECHNICAL DATA (cont'd)

PHYSICAL PROPERTIES (cont'd)

Emecole Metro 455		Test Method
Shore Hardness, D	D-69	ASTM D-695
Shrinkage	% negligible	ASTM D-2126
Ratio by volume	1:1	NA
Water Absorption	< 1.5%	ASTM D-2127

MATERIAL GUIDELINES

- Application Temp: 60–80°F (Ideal: 70–75°F)
- Storage Temp: 50–90°F
- Concrete Temp: Must be > 50°F
- Material Prep: Condition to 60–80°F before use

CAUTIONS

- Do not freeze
- Keep away from heat sources and open flame

PACKAGING

Dual Cartridges, 0.5 oz Syringes, 1/2 gallon sets and 1 gallon sets

CLEAN UP

In general, should be a moisture-free solvent. Most effective is methylene chloride, followed by MIBK. If above is not acceptable, use less efficient solvents such as mineral spirits or DOP.

WARRANTY

Recommendations concerning the performance or use of this product are based upon independent test reports believed to be reliable. If the product is proven to be defective, at the option of the Manufacturer, it will be either replaced or the purchase price refunded. The Manufacturer will not be liable in excess of the purchase price. The user will be responsible for deciding if the product is suitable for his application and will assume all risk associated with the use of the product. This warranty is in lieu of any other warranty expressed or implied, including but not limited to an implied warranty of merchantability or an implied warranty of fitness for a particular use.