

100/800 (50/50 BLEND) HIGH PRESSURE INJECTION POLYURETHANE

GENERAL DESCRIPTION:

Emecole Metro 100/800 Blend is a low viscosity hydrophobic polyurethane formulation designed for sealing leaking cracks or joints. The system is comprised of a base resin along with a catalyst. The catalyst is used by the experienced installer to manipulate the reaction profile as warranted by job site conditions. Being a hydrophobic formulation, when reacted with minimal amounts of water, the resulting foam will maintain its physical form and not be subject to shrinkage due to wet/dry cycles. When injected into wet cracks, Emecole Metro 100/800 produces a closed cell foam.

TYPICAL APPLICATION:

- Water related facilities
- Waste treatment plants
- Storm water systems
- Underground vaults
- Manhole facilities
- Tunnels
- Earthen dams
- Elevator pits
- Concrete dams
- Parking garages

ADVANTAGES:

- 100% solids.
- Expands up to 25 times initial volume
- Pumps as a single component
- Controllable reaction times
- Excellent resistance and durability
- Outstanding adhesion
- Non-hazardous shipping
- Non-flammable
- Cures inert, non-toxic, permanent seal

USE OF CATALYST

The reaction profile is adjusted prior to pumping by the addition of catalyst into the base resin and is affected by temperature and the amount of moisture encountered. At 1.25% (1/2 pint per five gallons) the expansion will start in about 35 seconds and be complete in about 3.5 minutes after encountering water. At 2.5% (1 pint per five gallons) the expansion will start at 25 seconds and be complete at about 2 minutes. These reaction times were determined at 77° F with the addition of 2.5% water.

TYPICAL INFORMATION:

Physical Properties – Liquid			
	Emecole Metro 100/800 Blend	Catalyst	Test Method
Viscosity	250 cps	25cps	ASTM D-1638
Specific Gravity	1.1	0.9	ASTM D-1475
Color	Light Amber	Clear	
Flash Point	> 250	225 °F	ASTM D-92

----- Solid Cured -----			
Density	4 lbs/ft ³		ASTM D-1622
Elongation	50%		ASTM D-638
Tensile	29 psi		ASTM D-638
Shear	17 psi		ASTM C-273
Water Absorption	< 1%		ASTM D-2842

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.