

WATER-STOP

ELASTOMERIC ASPHALT EMULSION COATING

GENERAL DESCRIPTION

Emecole Metro Water-Stop is a water-based exterior below-grade waterproofing membrane. Can be applied over almost any clean, dry, sound substrate. Is recommended for new construction waterproofing of all below-grade basement walls of poured concrete, unit masonry construction or ICF walls. Emecole Metro Water-Stop can be used as a membrane spray only or as part of a system, including Emecole Metro Dimple Board for Exterior Drainage (such installation should occur immediately after spraying each section of the wall with Emecole Metro Water-Stop).

EQUIPMENT

Recommended application via brush, trowel or heavy nap roller. Emecole Metro Water-Stop may be applied using airless spray equipment. A pressure of 3000 psi is required to spray the membrane.

COVERAGE

Depending on porosity and roughness of the surface, coverage rate for out of a 5 gallon bucket should be approximate 100 ft². Final application should be a minimum of a 55-mil wet thickness resulting in 40-mil dry.

GENERAL REQUIREMENTS

Avoid application when inclement weather is present or imminent. Do not apply Emecole Metro Water-Stop when the air temperature is below 20 deg. F. Ensure that footings are exposed and all surfaces are free of any debris, loose material, form oils, wet/damp or frozen areas. Sweep the tops or footers to clear away debris and dry footings/walls. Make sure all existing pipe, conduit or any other penetration through the wall are properly sealed on the outside with water plug, hydraulic cement or similar product. If penetrations are to be added after the spray application, it is still the applicators responsibility to ensure these areas are sealed. If this responsibility is passed onto the builder, inform the builder they are responsible and inform them of the proper procedure to seal these areas.

REQUIRED PREP WORK

Remove below grade wall ties inside the basement and out. Patch all outside below grade ties holes. Poured concrete walls must be free of voids and honeycombs. All brick ledges must be properly capped and sealed.

APPLICATION INFORMATION

If spraying Emecole Metro Water-Stop, the final recommended spray temperature of the material should be 100°F - 140°F. Recommended tip sizes: Graco XHD631,635,731,or 735.

CAUTION: Prolonged heat can deteriorate water-based products inside the spray tank. NOTE: When transporting water-based material from site to site or when idle on a job-site, the heat exchanger must remain off and there should be no other type of heat source to the tanks. When using the 5-Gallon Buckets, if a thinner consistency is required, a bucket band heater can be used to warm the material.

SPRAY APPLICATION

Membrane application should be done a section of the wall at a time. Use multiple, uniform passes, alternating from horizontal to vertical. Application should end on wall at footer. As work progresses check for thin spots and voids in the spray application. Re-spray any areas as necessary to obtain the required mil thickness. Determine the wet mil thickness by using a standard wet mil gauge. Application should be made to all below-grade basement walls. This includes any wall that would be considered a common wall to habitable/storage areas. (Ex. garage wall, porch, etc.) Note: Please see the individual instruction sheet for the proper way to install the board or roll that you are using.

Backfilling/Drainage

Backfilling should begin no sooner than 24 hours after the installation of Emecole Metro Water-Stop, but must be backfilled within 15 days. #57 Gravel or equivalent must be no less than 6" to 2' high at the base of the foundation and 1' in depth away from the foundation walls. Adequate interior and exterior foundation drainage at the base of the foundation walls or across any floors must be properly installed and working. Gutters and downspouts must be installed and functioning properly. Adequate drainage in landscaping beds adjacent to the foundation must be installed. Final grade must not extend above the waterproofing system.

Shipping Water-Based Product

When shipping emulsion based products during the winter months, there is always a risk of the material freezing while in transport. Plan accordingly, product is freeze/thaw sensitive.

Storage of Water-Based Product

Emecole Metro Water-Stop, like all asphalt emulsions, must be kept from freezing. It is best to store product containers off the floor at an ambient temperature at 40 deg. F and above. Opened containers should be tightly sealed before storage to prevent a skim-coat from developing on the surface of the liquid. Internal heat sources cannot be used in bulk storage tanks. It is not necessary to have bulk storage tanks insulated.

SHELF LIFE

When stored at temperatures between 40 - 100 deg., shelf life is 6 months in the original, unopened container.

LIMITED 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.

SPEC SHEET

PROPERTY

METHOD

RESULTS

Color		Black
Total Solids		60-70%
Application Method		Spray, Brush, Roller
Application Range		20 deg. to 130 deg. F
Elongation at 70 deg. F	(ASTM D-412 Die C)	1725% min.
Crack Bridging Ability	(ASTM C-836)	10 cycles; no failure
Resistance to Hydrostatic Head Pressure	(Federal Spec TT-C- 555B, Par 4.47)	No Water Infiltration
Total Cure Time		24 hrs.
Weight/Gallon		7.5 lbs.
Coverage Rate		5.0 gal. / 100 ft ²
Tensile Strength	(ASTM-C-719)	48 psi min.
Water Vapor Permeance	(ASTM E-96)	0.12 perm (grains sq.ft.h)
Mold Growth/Bacterial Attack		No degradation
Membrane/Board		60 mil dry thickness
Membrane Only		40 mil dry thickness
Adhesion to Concrete		No Adhesion Loss