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MEADOW-PRUF® CO-SPRAY

Cold-Applied Liquid Waterproofing Membrane

DESCRIPTION

MEADOW-PRUF CO-SPRAY is a liquid-applied, waterproofing membrane ideal for below grade vertical waterproofing applications. MEADOW-PRUF CO-SPRAY cures to form a tough, seamless, elastomeric membrane, which exhibits excellent resistance to water and water vapor. MEADOW-PRUF CO-SPRAY is modified with a blend of synthetic polymers and special additives. The product is applied using a co-spray system (in combination with W. R. MEADOWS CURE-IT co-spray curative).

USES

MEADOW-PRUF CO-SPRAY has been specifically formulated to act as part of a below-grade waterproofing membrane complete system. MEADOW-PRUF CO-SPRAY is suitable for both new construction and restoration on concrete or concrete masonry units (CMU) applications. MEADOW-PRUF CO-SPRAY can also be used on both ICFs and green concrete applications.

FEATURES/BENEFITS

- Develops rapid resistance to rain wash off and can be applied in cool and damp conditions
- Less reliant on ambient film forming conditions - co-spray application method greatly extends the seasonal application window
- Low permeability
- Cost-effective - co-spray application allows for single application thickness in a single coat, thereby reducing installation cost
- Environmentally compatible - MEADOW-PRUF CO-SPRAY is non-toxic and non-flammable
- User friendly – phthalate-free water-based technology allows for simple, safe application and easy cleanup
- Liquid applied – simplifies detailing and assures a monolithic, seamless membrane when applied to rough or smooth surfaces
- Excellent adhesion – bonds to many substrates
- No measurable VOC; produces no harmful odors; VOC-compliant in all 50 states.
- Compatible with other asphalt-based products

PACKAGING

5 Gallon (18.93 Liter) Pails
55 Gallon (208.2 Liter) Drums

COVERAGE

Application Rate: 25 ft.^{2}/gal. (0.49 m^2/L)
Wet Film Thickness: 65 mil (1.5 mm)
Cured Film Thickness: 45 mil (1.15 mm)
Coverage dependent on substrate type, weather, and application conditions.

SHELF LIFE

When stored indoors in original, unopened containers at temperatures between 40° - 90° F (4° - 32° C), optimum performance and best use is obtained within one year of date of manufacture.

SPECIFICATIONS/STANDARDS

- Complies with all current federal, state, and local maximum allowable VOC requirements, including National EPA VOC Emission Standard for Architectural Coatings, CARB, LADCO, OTC Phase I and II, and SCAQMD.

APPLICATION

Surface Preparation

Concrete ... Concrete should be smooth, with sharp protrusions such as cold joints. ground flush. Patch all cracks, protrusions, small voids, offsets, details, irregularities, and small deformities with MEADOW-PATCH® 5 or MEADOW-PATCH 20 from W. R. MEADOWS at least two hours before application.

All shrinkage cracks less than 1/16″ (1.6 mm) should be pretreated with a 60-mil coat of MEADOW-PRUF CO-SPRAY 6″ (152.4 mm) wide. All cracks greater than 1/16″ (1.6 mm) should be taped with DETAIL STRIP from W. R. MEADOWS prior to application of the membrane. For specific project recommendations, please contact W. R. MEADOWS technical services.

CONTINUED ON REVERSE SIDE ...

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Concrete Masonry Unit (CMU) ... Mortar joints shall be struck flush and shall be free of voids. Mortar droppings shall be removed from brick ties. Patch all cracks, protrusions, small voids, offsets, details, irregularities, and small deformities with MEADOW-PATCH® 5 or MEADOW-PATCH 20 from W. R. MEADOWS at least two hours before application.

Detailing ... After surface preparations are complete, detailing should be addressed. The desired thickness of membrane coverage is 120 mils for inside/outside corners and non-moving and hairline cracks, as well as around drains and penetrations.

TECHNICAL DATA

Property	Typical Value
% Solids by Weight	65%
VOC Content	42 g/L
Color	Black (Wet) Brown (Dry)
Elongation (ASTM D412)	800%
Tensile Strength (ASTM D412)	40 PSI
Water Vapor Permeance (ASTM E96, Procedure A)	0.134 Perms
Service Temperature Range	20° – 140° F (-29° C – 60° C)
Application Temperature Range Ambient Air, Substrate, & Material	>20° F[1] (-7° C) and Rising
UV Exposure	30 Days Maximum
Nail Sealability (ASTM D1970-01)	No Leaks
Peel Adhesion Strength (ASTM D903) Portland Concrete Masonry	 13 lbf/in. 12 lbf/in.
Pull Adhesion (ASTM D4541) Portland Concrete Masonry	 75 PSI 100 PSI

All technical data is typical information and will vary due to testing methods, site conditions, temperature, drying conditions, procedures, batching, and expected variations in raw materials and batching. Statistical differences in test results should be anticipated. On-site testing results may not correlate to published laboratory results due to testing variations.

Note[1] – Follow cold temperature guide requirements stated below under the section titled Co-Spray Application.

Footing Details ... Use DETAIL STRIP from W. R. MEADOWS for impaction sheet coverage. First, fold strips lengthwise and then cut at the fold. Material is then ready to install as 4 ½" (114.3 mm) strips on either side of the rebar. Any excess can be turned down on the face of the footing. Next, fill the voids around rebars in the keyway with BEM. Pour the walls. Install DETAIL STRIP horizontally along the wall where it meets the footing, placing half the material up the wall and the other half onto the footing. Extend the material 4 ½" (114.3 mm) beyond outside corners. Slit extended portion of DETAIL STRIP lengthwise. Place the horizontal flap out onto the footing and bend the vertical flap around the wall. Repeat this procedure in the opposite direction. In high water table applications, install WATERSTOP EC from W. R. MEADOWS directly to the cold joint before application of DETAIL STRIP.

Application Method ... Thoroughly, mechanically mix MEADOW-PRUF CO-SPRAY prior to application using a low speed (<500 rpm) drill and liquid mixing blade such as a Jiffey mixer.

Co-spray curative to be used with MEADOW-PRUF CO-SPRAY is CURE-IT. CURE-IT is ready to use, no dilution required. Using proper dual component spray set-up and application methods outlined in the Sprayer Equipment Guidelines for W. R. MEADOWS Co-Spray Fluid-Applied Membranes, spray product onto wall surfaces, holding the gun approximately 20" - 24" from the surface. Spray apply MEADOW-PRUF CO-SPRAY onto wall surfaces, holding the gun square to the surface and using a cross-hatch pattern to apply an even coat. Minimum wet mil thickness achieved in a single coat shall be 65 mils.

Recommended tip sizes for co-spray and one-part spray application: Graco XHD 551.

In cooler temperatures, <40° F, condition MEADOW-PRUF CO-SPRAY to a minimum 50° F by storing overnight at 75° F or higher prior to application. Use a heated trailer drum heater and a heat exchanger to keep the product in drums and lines warm (ideally above 70° F) during spraying in cold conditions. Properly conditioned product sprays, builds, and cures more consistently than cold product, thereby avoiding potential jobsite issues due to rain, snow, frost, or freezing conditions. Ensure that the substrate to be applied is free of frost, ice, or dew.

Frequently inspect surface area with a wet mil gauge as work progresses to ensure consistent thickness and adherence to minimum application thickness specified for project. Porous substrates such as CMU walls may require additional coats to obtain desired thickness. Provide complete coverage over surfaces, so that there are no voids, pinholes or similar passages through membrane.

Repairing Damaged Membrane ... Remove damaged and loosely-adhered MEADOW-PRUF CO-SPRAY. Clean weathered or dirty surfaces with a rag dampened with xylene in a 3" radius, extending out from the edges of the defect. Follow all safety recommendations of the solvent manufacturer prior to use of any solvents. Do not apply solvent directly to membrane. After wiping surface clean with the dampened rag, allow the surface of the membrane to dry. Re-apply MEADOW-PRUF CO-SPRAY over the cleaned area extending 3" from edge of defect.

Curing and Drying ... Curing times will be affected by dew point, relative humidity, temperature, and airflow. If dew point is within 5° F of ambient air temperature at time of application, dry time will be drastically increased. The following dry times are given for average conditions and standard thicknesses. Actual times may differ, depending on specific conditions present on job at time of application and curing.

Co-Spray Installation

Firm Set: <5 minutes at 75° F and 50 RH
Dry Film: 12 hours at 75° F and 50 RH

Allow the membrane to dry completely before subjecting it to inspection for air/water leakage and adhesion testing. Drying time varies with substrate, ambient temperature and humidity. Membrane is dry when it appears black and rubber-like, and feels dry when pressed. It is recommended that MEADOW-PRUF CO-SPRAY be allowed to air dry to a tack-free film before application of specified insulation. High ambient air and surface temperature will affect cohesive and adhesion properties during testing.

Compatibility ... Prior to project start, during the initial walk through, identify all membranes, coatings, sealants, tapes, and joint compounds by others which will contact MEADOW-PRUF CO-SPRAY and any accessories products. W. R. MEADOWS offers a complete air/vapor and waterproofing building envelope enclosure system and should be used when possible since compatibility and functionality have already been verified. If not possible to use W. R. MEADOWS system products, verify compatibility with W. R. MEADOWS and other material's manufacturer prior to installation. Laboratory verification of compatibility can take up to six weeks.

MEADOW-PRUF CO-SPRAY is not compatible with most polyurethanes, soft PVC or silicones.

Please reference W. R. MEADOWS standard compatibility sheets for a list of standard construction materials and substrates.

Cleanup ... Uncured MEADOW-PRUF CO-SPRAY cleans up easily while wet with water. Cured material is best removed by xylene (xylol) or by mechanical means.

Protection ... Cover with PROTECTION COURSE, MEL-DRAIN™, or PERMINATOR (10 mil) from W. R. MEADOWS. MEL-DRAIN (type B with polymeric backing film) should be used. View MEL-DRAIN INSTALLATION GUIDELINES at https://www.wrmeadows.com/mel-drain-installation-guidelines for detailed information. Surfaces must be covered within 45 days.

LIMITATIONS/PRECAUTIONS

Application on damp or green concrete may result in blistering due to outgassing of water vapor. These blisters are expected and are not considered a performance issue if the film's integrity has not been compromised. Protect adjacent areas from overspray. Protect area below from water that will release from the drying MEADOW-PRUF CO-SPRAY. MEADOW-PRUF CO-SPRAY is not designed to perform as a permanently exposed membrane. Do not extend above the grade line unless plans to permanently cover are specified. Keep containers tightly sealed. KEEP FROM FREEZING. Do not apply MEADOW-PRUF CO-SPRAY if rainfall is forecast or imminent.