



DATA SHEET NO. 6506-005

HYDRALASTIC™ 836 SL Cold-Applied, Moisture Cured, Waterproofing Membrane

DESCRIPTION

HYDRALASTIC 836 SL is a two-component, cold-applied, high solids, water-activated, waterproofing system. The product is designed for horizontal and vertical surfaces. It does not shrink and has a low volatile organic compound (VOC) content. It will not crack in extreme cold or flow due to softening at high temperatures.

USES

HYDRALASTIC 836 SL is suitable for use on interior or exterior concrete surfaces, where protection from water intrusion is desired. The product can be used for both above-grade and below-grade applications. HYDRALASTIC 836 SL is excellent for horizontal and vertical applications, such as waterproofing plaza decks and elevated composite decks and also in between-slab (split-slab) applications.

FEATURES/BENEFITS

- Fast curing at 23° C; no dust pick-up.
- Save time and labour; easy self-levelling application.
- Decreased blistering.
- May be applied to green concrete
- Fast cure; reduces labour.
- Cured with water addition in as little as two hours/Can be recoated same day for two-coat application.
- Will not harm EPS or Styrofoam materials.
- Does not freeze; will not be damaged due to freezing weather conditions.
- Cures to a tough, flexible membrane.
- Easy to mix; add up to 0.95 L (1 qt.) water per 18.9 L (5 gal.).

PACKAGING

18.93 Litre (5 Gal.) Pails

COVERAGE

Approximate coverage per 3.78 L (1 gal.):

2.4 m ² (26 ft. ²)	60 mils (dry)
1.6 m ² (17.5 ft. ²)	90 mils (dry)
1.2 m ² (13 ft. ²)	120 mils (dry)

SHELF LIFE

When stored indoors in original, unopened containers at temperatures between 4° - 21° C, optimum performance and best use is obtained within one year of date of manufacture.

SPECIFICATIONS/STANDARDS

- ASTM C836
- Canada VOC Concentration Limits for Architectural Coatings Regulations

Continued Over ...

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TECHNICAL DATA

PROPERTY	TYPICAL TEST VALUE	TEST METHOD
Solids Content by Weight, %:	96 ± 3	ASTM C2369
Initial Viscosity	2,000 ± 1000 cps	
Viscosity after 20 mins mixed with potable water	20,000 ± 1000 cps	
Working Time with addition of potable water	20 minutes at 23.9° C and 50% RH	
Initial Cure with the addition of 0.95 L (1 qt.) of potable water to 18.9 L (5 gal.) HYDRALASTIC 836 SL	2 Hours at 23.9° C and 50% RH	
Tensile Strength, MPa (psi):	2.41 ± 0.35 (350 ± 50)	ASTM D412
Elongation at Break, %:	500 ± 50 %	ASTM D412
Permeability, perm in.:	<1.5	ASTM E96 BW
Shore 00 Hardness:	>76	ASTM D2240
Service Temperature, ° C:	-40° to 70°	
Minimum Application Temperature, ° C:	Above -1° and rising	

APPLICATION

New Concrete ... For best results, all new concrete surfaces should be given a light trowel finish or screed to provide a flat, uniform surface. The surface should then be finished with a light broom profile. Wet curing is recommended. All membrane curing compounds must be mechanically removed. New concrete should be power washed or blown clean with oil-free compressed air before coating application to ensure removal any dirt build or contaminants that may interfere with bond of primer or HYDRALASTIC 836 SL.

Surface Preparation ... HYDRALASTIC 836 SL is intended for concrete, metal, and wood surfaces. For existing concrete remedial work or new concrete lacking profile, lightly roughen or rough grind substrate. Concrete surfaces require a medium sandpaper finish equal to or greater than ICRI CSP #3. Surface preparation may be completed by shot blasting. Install a 9.30 - 18.58 m² (100 - 200 ft.²) mockup of the system to be installed and approved for actual coverage rates and functionality before proceeding.

The concrete must be structural sound and free of all contaminants, including oil, grease, dust, laitance, and other bond-breaking materials. Mechanically abrade the concrete surface by grinding, abrasive blasting, or shot blasting to ICRI Guideline No. 310.2R, CSP 3 - 5.

All surfaces must be thoroughly dry, not damp, and have no standing water to ensure proper performance of the HYDRALASTIC 836 SL system.

For metal surfaces, remove all oils or other contaminants on the surface prior to application of HYDRALASTIC 836 SL. Mechanically abrade and solvent wipe to remove any contaminants. Allow the solvent to evaporate completely prior to application of HYDRALASTIC 836 SL.

Joints, Cracks, and Flashing ... Apply a stripe coat of HYDRALASTIC 836 SL over all cracks up to 1.6 mm (1/16") width. All cracks over 1.6 mm (1/16") width must be caulked. All detailing must be covered within 48 hours at 23° C with the full application of the HYDRALASTIC 836 SL waterproofing.

Priming ... For porous substrates and where air and/or moisture release may cause pinhole or blister problems to occur in the applied membrane, priming the substrate prior to application of HYDRALASTIC 836 SL is recommended. Discovery of these issues is generally revealed in the mockup. For priming recommendations and installation, refer to PRIMING GUIDE provided at <https://www.wrmeadows.com/hydralastic-836-and-sl-priming-installation-guidelines/>.

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Decrease Blistering ... This is a water-activated waterproofing compound; as such, water is required for proper curing. The waterproofing membrane should be properly mixed with water to achieve optimal performance. Add up to (0.95 L) (1 qt.) of potable water per 18.9 L (5 gal.) pail of HYDRALASTIC 836 SL. Applying HYDRALASTIC 836 SL in the cooling/declining temperature part of the day or not in direct sunlight will decrease probability of blistering due to outgassing from the concrete and/or also due to surface sealing rapidly, trapping vapour/moisture in the material. Do not apply when the surface temperature of the substrate is greater than 32° C.

Mixing Mix ratio is 20 parts HYDRALASTIC 836 SL to one part water by volume. HYDRALASTIC 836 SL should be thoroughly mixed before adding water. Add up to 0.95 L (1 qt.) of water to 18.9 L (5 gal.) of HYDRALASTIC 836 SL and mix thoroughly for three minutes using a mechanical mixer at slow speed to ensure a homogeneous material. Use a mixing blade designed for paints or coatings, not a mud or mortar mixer. Take care not to allow entrapment of air into the material.

Application Method ... Make sure product is conditioned at 23.9° C by storing product overnight or at least 12 hours prior to use for ease of application.

Apply evenly by notched squeegee. A serrated or notched squeegee is suggested for best results. Since HYDRALASTIC 836 SL is designed to be self-leveling, the material will level behind the notched squeegee to a given thickness depending on amplitude of notch. This helps to ensure uniform coverage, decreased waste, and ease of application. Following application with a notched rubber squeegee, back roll with a short hair nap roller in a cross direction to ensure a uniform surface. HYDRALASTIC 836 SL can also be applied horizontally with a serrated or notched squeegee. Cure time will vary depending on temperature and humidity. Attention to proper slope to drain is essential for proper waterproofing. HYDRALASTIC 836 SL has a work life of 20 minutes at 23.9° C with the addition of potable water. Make sure all spreading and finishing of the product has been completed within this timeframe.

In critical waterproofing applications such as plaza decks, podiums, or other similar horizontal waterproofing applications, a 60-mil layer of HYDRALASTIC 836 SL embedded with REINFORCING FABRIC HCR from W. R. MEADOWS is recommended. Keep in mind, the reinforcing fabric must be embedded in the wet HYDRALASTIC 836 SL to ensure proper bond and wetting-out. Typically, this must be completely finished within 20 minutes of initial mixing at 23° C. For all horizontal installations, refer to High Build Reinforced System installation guidelines provided at www.wrmeadows.com for proper installation guidelines. If there are no details available for your specific application, please contact a W. R. MEADOWS representative for recommendations.

If a second coat is necessary, apply as soon as first coat has set sufficiently to support subsequent coat. Recoat time at 23.9° C and 50% relative humidity is 2 - 4 hours before proceeding to subsequent coats, but no more than 24 hours apart. As ambient, substrate, and material temperatures increase, an oily-like film may develop on the surface and act as a bond breaker. For next-day or second-coat applications, rub the tie-in area down [152 - 203 mm (6" - 8")] wide with acetone, mineral spirits, or xylene. This removes the oil film. Do not use alcohol. If more than 48 hours has elapsed at 23°C), a prime coat of the epoxy primer must be applied per Priming Installation Guideline provided at www.wrmeadows.com. Primer must be completed to ensure inter-coat adhesion.

HYDRALASTIC 836 SL can be applied up to 15 mils in a single vertical application until the minimum 60 mils or project specified mil thickness requirement is achieved.

Protect the Membrane ... Protect HYDRALASTIC 836 SL with MEL-DRAIN™ (type with the polymeric backing film) from W. R. MEADOWS or contact W. R. MEADOWS for additional protection course options. Application of protection should be done after material can be walked on without causing damage to the integrity of the membrane.

HYDRALASTIC 836 SL will not typically wash off if rain begins during or after application. Stop all work if rain begins and protect open or unused material from rainfall.

Cleanup ... Uncured HYDRALASTIC 836 SL cleans up easily with acetone, mineral spirits, or xylene. Cured material is best removed by mechanical means.

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PRECAUTIONS

Do not expose product to exterior UV for longer than 14 days. HYDRALASTIC 836 SL is not to be used as a liner in a water-containing structure and is not to be used as an exposed or wearing surface. For this purpose, use the GEMITE® line of products. HYDRALASTIC 836 SL is not compatible with asphalt, polymeric-based products, or asphaltic membranes. Do not use on surfaces that are later to be painted. The product cannot withstand direct wear or abrasion. Containers that have been opened must be used as soon as possible. Do not dilute product with solvent under any circumstance. HYDRALASTIC 836 SL is not recommended for use over magnesite, gypsum, lightweight concrete, or where chained or studded tires may be used. Concrete must exhibit 20.7 MPa (3000 psi) minimum strength. Use denatured alcohol to remove all grime, oil, paint, frost, and other contamination from all working surfaces. Always install a mockup prior to full installations.

This data sheet provides a summary of the factors, precautions, limitations, and design theories that should be considered when designing a complete waterproofing and drainage system, but is not standalone or complete; project, environmental, and application specific requirements must be considered before drafting a guide specification, determining suitability, or application of material. Suitability of HYDRALASTIC 836 SL is the sole responsibility of the licensed design professional or installing contractor.

Refer to safety data sheet for health and safety information. **WARNING:** This product contains isocyanates.

MASTERFORMAT NUMBER AND TITLE

07 14 16 - Cold Fluid-Applied Waterproofing

For BIM models, CAD details, most recent data sheet, further LEED information, and SDS, visit
www.wrmeadows.com.

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