DAVLIN
ACRYLASTIC ELASTOMERIC WATERPROOF COATINGS

ACRYLASTIC® 9150

PRODUCT DATA

PRODUCT DESCRIPTION

ACRYLASTIC ASPHALT 9150 is a patented below-grade waterborne asphalt emulsion that is extremely waterproof and highly elastic.

PRODUCT USES

ACRYLASTIC ASPHALT 9150 is designed to be a vapor barrier/sealer for waterproofing applications including:

- Below-grade
- Waterproofing between concrete slabs
- Underground concrete or steel pipes
- Irrigation canals below waterline
- Concrete water reservoirs
- Wood

PRODUCT ADVANTAGES

- Extremely waterproof - moisture vapor transmission of 0.05 perms
  - Similar to Butyl Rubber
- Superior flexibility and elongation at 700%
- Very tough - has a tensile strength of 100 p.s.i.
  - Much tougher than asphalt or butyl rubber
- Superior adhesion, similar to epoxy glue
  - Has greater adhesion to concrete than concrete to itself
- High solids - over 65% by volume
- Lower cost - a fraction of the cost of urethanes and butyl rubber at the same solids level
- Water-base therefore non-hazardous, single component
- Very resistant to alkali/salt, acid and common chemicals
- Fast drying and capable of being applied over damp surfaces

PRODUCT PROPERTIES

- Tensile strength, p.s.i. 100
  (ASTM D2370, 1 in./min.)
- Tensile elongation % at break 700
  (ASTM D2370, 1 in./min.)
- Moisture vapor transmission, perms 0.05
  @ 20 mils DFT (ASTM E96, Proc. B)
- Adhesion, concrete p.s.i. (cohesive failure) 350
  (ASTM D413)
- Resistance to hydrostatic pressure, p.s.i.g. min. 23
  (ASTM D562) (=30 foot head of water) (note 2)
- Solids, % minimum by volume 65-75
  (ASTM D2597)
- Solids, % minimum by weight 65-75
  (ASTM D2369)
- Salt-spray resistance ..... no rusting
  (ASTM D1654)
- Alkali resistance ..... no effect
  (Fed. Spec. TT-C-555B, GSA ex. 1)
- Impact Resistance, inches/lbs. ..... over 140
  (ASTM D2794)
- Low temperature flexibility (0°C, 1/16" mandrel) ..... pass
  (ASTM D1737, modified)
- Resistance to ponded water ..... no blisters
  (see note 1) no film degradation
- Accelerated weathering @ 5000 hrs. ..... slight oxidation
  complete sheen loss, no film degradation

Note: All tests performed represent minimum standards. Unless otherwise stated and specified, all samples were spray applied, allowed to air dry for 7 days, subjected to 300 hours in a weatherometer and tested at 23°C (73°F).

Note 1: From a preformed urethane board, 2 inches thick, having a 40 lb. density, cut out two panels 9" by 5". On one create a water pond by cutting out urethane. When filled with water the depth at the center shall be ½" gradually diminishing at the edges. Coat entire panel with Acrylastic 9150 in two applications to a dry film thickness of 25 mils. Coat the other uncut panel with an asphalt black emulsion. Allow to dry for 7 days at room temperature. After 7 days place a heat lamp directly in front of the panel coated with asphalt. Adjust height of lamp so that the temperature at the surface of the asphalt reaches 165°F. Replace the asphalt panel with the panel coated with Acrylastic 9150. Fill with water. One hour after all the water has evaporated, refill panel with water. Repeat this procedure for 10 days, 8 hours per day.

Note 2: Spray apply material to a porous block to a DFT of 20 mils. Cement to the coating a plastic cylinder with an opening of 1.77 sq. inches. Fill cylinder with water and maintain a pressure of 23 p.s.i.g. over water's surface for a period of 90 days.

PRODUCT LIMITATIONS

- Do not apply Acrylastic Asphalt 9150 in temperatures below 45°F.
- Do not apply during, or 24 hours preceding, inclement weather including rain, fog, mist or freezing temperatures.
- Do not apply to any surface previously coated with a silicone water repellent or other type of release or curing agent.
- Do not apply over water-saturated surfaces

WATERBORNE ASPHALT BELOW GRADE SEALER

PRODUCT INFORMATION

- Color ..... Black
- Components 1
- Curing Mechanism ..... Air Dry
- Volume Solids (ASTM D2597) 65
- Coats 2-6
- Dry Film Thickness (DFT) per coat ..... 10 mils
- Recommended total DFT(see Table 1) ..... 20-60 mils
- Coverage per coat per 100 sq. ft. (see Table 1) ..... 1 gallon
- VOC ..... 107 g/l
- Flash Point (SETA) ..... >215°F
- Packaging ..... 1, 5, Gal.
- Availability ..... Shipped Nationally & Internationally

APPLICATION CONDITIONS

- Temperature air and surface: ..... 45°- 100°F, 7°- 38°C
- Do not apply at temperatures below 45°F nor during, or 24 hours preceding, inclement weather: including rain, fog, mist, or freezing temperatures.

APPLICATION SYSTEM

- Before application of Acrylastic 9150, obtain from soils engineer the maximum hydrostatic pressure, given worst case scenario, that can be expected. Follow the soils engineer's and architect's specifications. If these contradict the Davlin recommendations, contact your Davlin representative before proceeding.
- Appropriate DFT of Acrylastic 9150 depends on the anticipated maximum hydrostatic pressure to which the surface will be exposed. To convert hydrostatic pressure to psi divide tabulated values (ft of water) by 2.31.

Table 1

Hydrostatic Pressure (ft of water)	Acrylastic 9150 Coats	Coverage(gl/100ft2)	Minimum Total System DFT (mils)
<3	2 - 3	2	35
3 - 5	3	3	39
6 - 9	3	3.5	44
10 - 13	3	4	48
14 - 18	3 - 4	5	57
19 - 24	4	6	65
25 - 30	5	7	74

APPLICATION EQUIPMENT

The following is a guide; suitable equipment from other manufacturers may be used. Changes in pressure and tip size may be needed for proper spray characteristics.

Airless: Standard equipment such as Graco Bulldog Hydra Spray or larger with a 0.021 inch fluid tip or larger.

Roller: Suitable for waterborne coating. Multiple coats may be required to achieve specified DFT.

SURFACE PREPARATION

- All surfaces shall be clean, free from dirt, release agents, wax, mildew and all other contaminants, including salt deposits. Do not apply directly to contaminated, damaged or powdery surfaces, nor to any surface previously coated with a silicone water repellent or other type of release or curing agent.
- CONCRETE: Clean concrete surface ASTM-D4258-6.4. Water blast pressure 1500-3000 p.s.i.

APPLICATION PROCEDURE

- Flush all equipment with water before use.
- Stir Acrylastic 9150 thoroughly until uniformly blended. Avoid excessive mixing to prevent air entrapment.
- **Spray application**: Apply a wet coat in even, parallel passes, overlap each pass 50 percent to avoid holidays, bare areas and pinholes. Cross spray at right angles to first pass. Porous concrete will require more than one pass.
- **Roller application**: Apply a wet coat in even, parallel passes, overlap each pass 50 percent to avoid holidays, bare areas and pinholes. Level any air bubbles with a brush. Cross roll at right angles to first pass.
- Drying time to re-coat @70°F (21°C)
  - minimum ..... dry through (4 - 8 hours)
  - maximum ..... 7 days
- Random pinholes, holidays and small damaged or bare areas can be touched up by brush when film is dry to touch. Larger areas should be re-sprayed.
- Prior to backfilling after Acrylastic 9150 application, install one layer of protection particle board over coating. Remove all sharp rocks, tree stumps and other objects in the backfill which may damage the board.
- Clean equipment with water or water and detergent immediately after use.

WARRANTY INFORMATION

The information, ratings and opinions stated above are, to the best of our knowledge, accurate, representing the results of laboratory and field evaluation. It is presented in good faith to assist the user in determining whether our products are suitable for his application. Since the user's application and other requirements are not known by us or are beyond our control, no warranty or guarantee as to results is hereby made or implied by Davlin Coatings, Inc.

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