ACRYLASTIC 490
HIGH-PERFORMANCE ELASTOMERIC
WATERPROOF WALL COATING
ACRYLASTIC 490 is a high performance, elastomeric, waterproof, anti-carbonation wall coating that provides long-term protection and beauty over a variety of surfaces.

**PRODUCT USES**

ACRYLASTIC 490 is designed to be coated over properly primed interior and exterior concrete, masonry, stucco, most wood and metal substrates. Recommended uses:
- Over cracked, uneven or unsightly surfaces
- Surfaces where water penetration and degradation pose problems
- To retard diffusion of carbon dioxide into substrate
- As an encapsulator coating over asbestos and lead
- Areas where long-term surface protection is desired and continuous repainting costs are prohibitive

**SUPERIOR PERFORMANCE**

**NOT ALL ELASTOMERIC COATINGS WERE CREATED EQUAL**
The defining characteristics of waterproof elastomeric coatings are tensile elongation, tensile strength and water vapor transmission. Davlin's Acrylastic 490 far exceeds its competitors in all three defining categories.

**Superior Performance = Superior Value:** One gallon of Acrylastic 490 goes from 10% to 25% further than most other elastomers, lowering its cost per sq. ft.¹

**COVERAGE PER GALLON**

<table>
<thead>
<tr>
<th>Coverage per Coat on Smooth Masonry Surfaces</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-110</td>
</tr>
<tr>
<td>90-100</td>
</tr>
<tr>
<td>80-100</td>
</tr>
<tr>
<td>70-90</td>
</tr>
<tr>
<td>60-110</td>
</tr>
</tbody>
</table>

**SUPERIOR WATERPROOFING**

Moisture Vapor Transmission and Moisture Vapor Permeability measure the rate at which water in vapor form can penetrate a film of coating. The lower the numbers, the more water proof the coating. While Davlin's Acrylastic 490 is the most waterproof it still breathes to allow moisture inside the building to escape.²

**WATER VAPOR PERMEABILITY**

![Graph showing water vapor permeability](image)

<table>
<thead>
<tr>
<th>Acrylastic 490</th>
<th>Lower Number = Less Water Penetration</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.14</td>
<td></td>
</tr>
<tr>
<td>9.64</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td></td>
</tr>
</tbody>
</table>

**WATER VAPOR TRANSMISSION**

<table>
<thead>
<tr>
<th>Acrylastic 490</th>
<th>Lower Number = Less Water Penetration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2</td>
<td></td>
</tr>
<tr>
<td>2.16</td>
<td></td>
</tr>
<tr>
<td>1.62</td>
<td></td>
</tr>
</tbody>
</table>

**SUPERIOR ANTI-CARBONATION**

- **CO₂ Diffusion resistance (µ CO₂):** 388,600
- **CO₂ Diffusion resistance at 8 dry mils:** 259 ft.

**SUPERIOR FlexIBILITY**

Elongation measures a coating's ability to stretch. Higher elongation means more flexibility and greater protection against cracking. Acrylastic 490 stretches 14 times its original size.²

**SUPERIOR STRENGTH**

Tensile Strength measures a coating's inner strength or toughness, measured in pounds per square inch, the higher the tougher.²

- **ACRYLASTIC 490**
  - Elongation: 100-110
  - Tensile Strength: 2,000-2,500

**SUPERIOR EXPERIENCE**

- Davlin pioneered the development of water base elastomeric coatings back in the 1960's.
- Davlin has led the way in many areas of coating technology, below are some examples:
  - **MARINE:** Davlin was the only coating company to meet the challenge of designing a coating for the Golden Gate Bridge that would set up instantly in the extreme moist and salty conditions while maintaining gloss and adhesion.
  - **AEROSPACE:** Davlin developed the non-flaming enamel used on the Space Shuttle.
  - **ROOFING:** Davlin developed a patented 50% asphalt and 50% waterborne polymer, elastomeric, waterproof roof coating that stretches up to 10 times its size called Acrylastic Asphalt 900. Now Acrylastic Asphalt 900 comes in U.V. reflective gray as well as standard black.
**Product Information**

- Finish: Eggshell
- Color: White or Custom Colors
- Components: 1
- Curing Mechanism: Air Dry
- Volume Solids (as applied): 60%
- Coats: 1-2
- Wet Film Thickness per coat*: 16 mils
- Dry Film Thickness (DFT) per coat: 9.6 mils
- Coverage per coat per 100 sq. ft.: 1 gallon
- Minimum total DFT (5 year system): 8 mils
- Minimum total DFT (10 year system): 16 mils
- VOC: 75 g/l
- Flash Point (SETA): >215°F
- Qualifications: Fed. Spec. TT-C-555
- Packaging: 1, 5, 55 Gal.
- Availability: Shipped Nationally & Internationally

* Acrylastic 490 may be applied at higher wet film thicknesses under appropriate conditions. Consult Davlin before doing so.

**Application System**

- Primer/Sealer: Butylseal 572
- Base Coat: Acrylastic 490
- Top Coat (optional): Sunshield 3800

**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.

**Surface Preparation**

- All surfaces shall be clean, free from dirt, release agents, wax, mildew and all other contaminants, including salt deposits. Recommend pressure washing at 2500 p.s.i. Remove all old loose paint. Sandblast if necessary.
- All porous surfaces shall first be primed with Davlin’s Butylseal 572 including: new wood, concrete, masonry and slightly chalky substrates. Metal surfaces shall first be primed with a suitable metal primer. Old wood surfaces shall be primed with an oil base primer.
- Cracks: Prime all cracks with Butylseal 572. For cracks 1/32 inch or less apply Acrylastic 490 and roll in. On larger cracks not exceeding 3/8 inch, fill with Acryflex 1210. On cracks exceeding 3/8 inch, treat as expansion joint using a polyurethane foam backer rod and an expansion joint compound or repair with a masonry patching compound.
- Never feather out caulk. Remove all excess caulking material from around the crack to avoid an uneven appearance after applying Acrylastic 490. Acrylastic 490 will not prevent the appearance or reappearance of cracks due to structural movement at expansion joints, settling or earthquakes.

**Application Equipment**

- **Airless:** Standard equipment such as Graco Bulldog Hydra Spray 30 or 45:1 pump with a 0.025 - 0.031 inch fluid tip.
- **Conventional:** Industrial equipment such as Binks 11:1 Saturn pump or equivalent with air control cut-off, a material hose 3/4 inch ID minimum and an air hose 1/4 inch ID and 50-75 p.s.i. air pressure minimum. Heavy mastic spray gun such as Binks TE2 with 1/4 inch fluid tip or larger and slooted nozzle.
- **Brush or Roller:** Suitable for waterborne coating. Multiple coats may be required to achieve specified DFT. Roller nap will vary according to texture of substrate.

**Application Procedure**

- Flush all equipment with water before use.
- Stir Acrylastic 490 thoroughly until uniformly blended. Avoid excessive mixing to prevent air entrapment.
- Do not thin.
- Spray or roll a wet coat in even, parallel passes. Overlap each pass 50 percent to avoid holidays, bare areas and pinholes. If required, follow with a cross roll or spray at right angles to pass. Use a foam film gauge to check film thickness.
- Drying time to re-coat @70°F (21°C)
  - Minimum: dry through (4 - 8 hours)
  - Maximum: none
- On rough surfaces back roll first coat to ensure that coating is pushed deep into surface. Spray or roll second coat at right angle to first.
- Allow second coat to dry 24 hours and no more than 7 days before testing for dry film thickness by removing samples of the coating for micrometer thickness measurements. Examine and inspect applied coating for pinholing and air entrapment. Repair damaged areas.
- Clean equipment with water or water and detergent immediately after use.

**Warranty Information**

Limited warranties are available subject to certain terms and restrictions contact your Davlin representative at (510) 848-2863 for 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.

**Davlin Coatings, Inc.**
P.O. Box 2308 - 700 Allston Way, Berkeley, CA 94710, U.S.A.  (800) 709-5919, (510) 848-2863, Fax: (510) 848-1464
www.davincoatings.com, email:info@davlincoatings.com