



ACRYLASTIC[®]

490

PRODUCT DATA

PRODUCT DESCRIPTION

ACRYLASTIC 490 was developed in 1983 to be a high-build, decorative, extremely flexible, high performance waterborne waterproof wall coating that provides long-term protection and beauty over a variety of interior and exterior surfaces.

PRODUCT USES

ACRYLASTIC 490 is designed to coat over properly primed interior and exterior concrete, masonry, stucco, most wood and metal substrates. Acrylastic 490 may be top coated with Sunshield 3800 to reduce dirt pick-up. It is especially recommended for use over:

- Cracked, uneven or unsightly surfaces
- Surfaces where water penetration and degradation pose problems
- As an encapsulator coating over asbestos and lead
- Areas where long-term surface protection is desired and continuous repainting costs are prohibitive

PRODUCT ADVANTAGES

- Superior Performance = Superior Value & Life-Cycle Cost
 - Acrylastic 490 offers double the performance of competitors
 - 1 gallon will do what 2 gallons of most other elastomers do
- Superior flexibility and elongation at 1400%
 - Most other elastomers hit 500%
 - Greater protection against new cracks forming
 - Remains very flexible even at low temperatures
- Extremely tough, has highest tensile strength in its class at 2400 p.s.i.
 - Most other elastomers hit only 250 p.s.i.
 - Better resistance to dirt pick-up and tearing
- Superior Resistance to Alkali, Salt and Fungus and Weathering
- Superior adhesion to substrate
 - Resists peeling off
- Superior waterproofing, has very low water vapor transmission
 - Won't allow water in liquid form to pass, yet it will breath
- Easy application with airless, conventional air, roller or brush
- Water-base for easy clean-up and low odor
- High solids therefore low shrinkage, allows it to bridge hair-line cracks

PRODUCT PROPERTIES

Tensile strength, p.s.i.	2400
<small>(ASTM D2370, 1 in./min.)</small>	
Tensile elongation % at break	1400
<small>(ASTM D2370, 1 in./min.)</small>	
Low Temperature tensile elongation(0°C)%	600
<small>(ASTM D2370, 1 in./min.)</small>	
Moisture vapor transmission, perms	1.2
<small>@ 20 mils DFT (ASTM E96, Proc. B)</small>	
Peel Adhesion, concrete p.s.i.	48
<small>(ASTM D413)</small>	
Viscosity (Stormer K.U.)	125-135
<small>(ASTM D562)</small>	
Solids, % minimum by volume	60
<small>(by application)</small>	
Impact resistance	> 60 in-lb
<small>(Fed. Std. 141 [6226])</small>	
Salt-spray resistance	no rusting
<small>(ASTM D1654)</small>	
Alkali resistance	no effect
<small>(Fed. Spec TT-C-555B, GSA ex. 1)</small>	
Fungus resistance	no growth
<small>(Fed. Std. 141 [6271], note 2)</small>	
Heat Stability	no change
<small>(Fed. Std. 141 [6051])</small>	
Resistance to wind-driven rain > 1000 mph	no wt. gain
<small>(Fed. Spec TT-C-555B, 4.4.7 min. 95 mph req.)</small>	
Resistance to ponded water	no film degradation
Accelerated weathering @ 5000 hrs.	no chalking, no sheen loss
<small>(ASTM D822) no degradation, no discoloration</small>	

Note: All tests performed represent minimum standards. Unless otherwise stated and specified, all samples were spray applied, allowed to air dry for 1 year and tested at 23°C (73°F).

PRODUCT LIMITATIONS

- Do not apply Acrylastic 490 when surface temperature is below 45 °F.
- When surface or air temperature exceeds 100 °F, consult Davlin for special application procedures
- Do not apply during, or 24 hours preceding, inclement weather including rain, fog, mist or freezing temperatures.
- Do not apply directly to contaminated, damaged or powdery surfaces.
- Do not apply to any surface previously coated with a silicone water repellent or other type of release or curing agent.
- Do not apply when a vapor barrier is required.
- Do not apply on exterior below-grade surfaces.
- Acrylastic 490 will freeze and become unstable at temperatures below 32 °F. Do not ship or store in any area where freezing may occur.

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

APPLICATION SYSTEM

Primer/Sealer	<i>Butylseal 572</i>
Base Coat	<i>Acrylastic 490</i>
Top Coat (optional)	<i>Sunshield 3800</i>

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. Remove all old loose paint.
- 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

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 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 1/2 inch ID and 50-75 p.s.i. air pressure minimum. Heavy mastic spray gun such as Binks 7E2 with 1/4 inch fluid tip or larger and slotted 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 first pass. Use a wet 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.

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

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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