Acrylastic 490 Wall Coating

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

Ultra waterproofing, low water vapor transmission
Full adhesion to substrate
Resists peeling and stays in place
Superior flexibility and elongation
Greater protection against new cracks forming
Remains flexible even at low temperatures
Resists tearing when stretched
Superior resistance to alkali, salt, fungus and weathering
Breathes, but won't allow liquid water to pass through
Easy application with airless, conventional air, roller or brush
Water-base for easy clean-up and low odor
High solids, low shrinkage
Extremely tough: highest tensile strength in its class

Acrylastic 490 Wall Coating is designed to coat over properly primed interior and exterior concrete, masonry, stucco, most wood and metal substrates. 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

Acrylastic 490 is part of

Davlin's Complete Wall System

Seamless · Watertight · Fully Adhered

Primer - *Butylseal* 572 provides a firm foundation and excellent sealing while maintaining enough tack to securely apply a base coat

Base Coat - *Acrylastic* 490 is a waterproof wall coating that provides long- term protection over a variety of surfaces

Top Coat - *Sunshield* 3800 is a highly reflective top coat that provides excellent solar reflectance and UV resistance. Hard, durable, easy to clean and resistant to microbial growth

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made in the USA
designed by Davlin in California

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Properties / Specifications

Tensile strength[1]: 2400 psi
Tensile elongation (break)[2]: 1400%
Low temperature tensile elongation (0°C)[3]: 600%
Moisture vapor transmission, perms[4]: 1.2 @ 20 mils DFT
Peel adhesion, concrete[5]: 48 psi
Viscosity (Stormer)[6]: 120-135 KU
Solids by volume[7]: 60% min
Impact resistance[8]: >60 in-lb
Salt-spray resistance[9]: no rusting
Alkali resistance[10]: no effect
Fungus resistance[11]: no growth
Heat stability[12]: no change
Resistance to wind-driven rain >100 mph[13]: no wt. gain
Resistance to ponded water: no film degradation
Accelerated weathering @5000 hrs[14]: no chalking, no sheen loss no degradation, no discoloration
Curing mechanism: Air Dry
Coats: 2
Dry film thickness (DFT) per coat: 8-12.5 mils
Recommended total DFT: 16-25 mils
VOC: <50 g/L
Flash point (SETA): >215°F

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 73°F.

1 ASTM D2370, 1 in./min.
2 ASTM D2370, 1 in./min.
3 ASTM D2370, 1 in./min.
4 ASTM E96, Proc. B
5 ASTM D413
6 ASTM D562
7 by application
8 Fed. Std. 141 [6226]
9 ASTM D1654
10 Fed. Spec TT-C-555B, GSA ex. 1
11 Fed. Std. 141 [6271], note 2
12 Fed. Std. 141 [6051]
13 Fed. Spec TT-C-555B, 4.4.7 min. 95 mph req.
14 ASTM D822

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 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 (re)appearance of cracks due to structural movement at expansion joints, settling or earthquakes.)

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 apply 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 spray at right angles to first pass. 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. Drying time to recoat @70°F: 4 - 8 hours dry through.

Limitations: Do not apply *Acrylastic* 490 when surface temperature is below **50**°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. Do not apply over water-saturated surfaces. Do not apply over surfaces contaminated with materials which can act as release agents. Do not apply over surface which contains bacteria, mold or mildew.

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 II: I 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 and thickness of coat.