



## Tint and Deep Base Physical Properties

### Specifications and Test Data

Wonder 25 is a coating system that is completely acid rain resistant its entire life. The high performance acrylic system is supported by a 28% urethane graft that makes the coating chalk resistant as well as jet fuel resistant around airports. It bonds well to metal and wood surfaces on cleaned and primed surfaces. Wonder 25 is totally monolithic. The perm values are set for siding in the South, Southeast, Southwest and the Northwest. In very cold climates in homes without vapor seals WonderPaint will increase the perm rating. The coating reflects 96% of the energy that strikes its surface saving more than 40% of the cooling cost in summer and reflecting heat energy back into the building in winter. Wonder 25 pays for itself and gives long time substrate protection when properly installed. It is the only liquid siding that has both organic and inorganic UV protection to prevent yellowing and changes in the coating's texture and appearance. The proven Anti fungal and algae package prevents boring and slime organisms from destroying appearance and siding surface.

### Physical Properties & Engineering Data

% Solids Tint Base 11.87 lbs / gallon	71% by weight	
% Solids Deep Base 11.33 lbs / gallon	60.3% by Volume	
Adhesion 180° peel test  Use primers for best results!	Glass	16.5 - 20.00
	Ceramic tile	16.5 - 20.00
	Aluminum	16.0 - 18.00
	Steel	16.0 - 18.00
	Styrofoam	22.0 +
	Yellow Pine	22.0 +
Tensile Strength:ASTM D 2370	354 psi @ 12.3 mils	
With 1 ply polyester fabric	2000 psi	
With 2 ply polyester fabric	4000 psi	
Percent Elongation ASTM D 2370	88	
Hardness		
Shore A @ 68° F	54	

Flash Point	NONE	
Environmental codes: conforms to all present environmental codes such as L.A. Rule 66 and Philadelphia Reg. V		
Resistance to wind driven rain according to F.S.#TT-C555B Sec. 3.3.3	No penetration of water.	
Moisture resistance according to Federal Test Method Std. No.2051, Procedure B	No loss of adhesion, discoloration, blistering, cracking , flaking or chalking.	
Moisture Vapor Permeability according to F.S. #TT - C555B Sec. 4.4.8	1 or 2 perms exceeds minimum requirement of 0.4 perms	
Electrical resistivity, volume ohm-cm.	$1.9 \times 10^{14}$	
ASTM D-257: 50% RH 23°C	Silica	
Flexibility: 1/2 inch rod	to <b>minus 30°F</b>	

Recovery from 100% extension after 5 min.	96.60%	
Fuel and oil resistance	Excellent	
Acid and alkaline resistance	Excellent	
Moisture vapor Transmission ASTM D-1653	Tint Base	1.38 perms @ 12 mils dry
	Deep Base	1.72 perms @ 12 mils dry
Cold Northern Climates where no vapor barrier exits.	100 to 200 % increase per your Architect's Recommendation	
UV resistance QUV ASTM D 4587	Excellent	
	No deterioration after 3,000 hrs. in weatherometer.	
Fire Retardance ASTM E-84	Flame spread factor - - - 15	
	Fuel contributed factor - 10	

VOC's Deep Base	Weight	134.7 grams /gal.
	Volume	4.47 ozs. / gal.
VOC's Tint Base	Weight	202.7 grams /gal.
	Volume	6.71 ozs. / gal.
Tint Base Deep Base	All Colors	Pastels
	All Colors	Deep Tones
Color Matching:	By Spectrophotometer for accuracy and easy replication.	
Viscosity:	Kreb Units	125-130
	cps	20,000-25,000
Drying Time: See Application	8-12 mils wet	30 minutes
Slump on draw down card	12 mils wet	None

### Application

**SURFACE PREPARATION:** Thoroughly remove surface contaminants such as dust or dirt without damaging the substrate. For previously painted surfaces, all loose and chalking paint must be removed, and glossy surfaces dulled. Any form-release agents or bond breakers must be removed. Over stucco and concrete surfaces prime with ASA603 CEP. Uneven concrete, stucco or masonry can be leveled with ASA603 Polymer Concrete. Allow sufficient time for repaired cracks and Base Coat to dry before the application of Wonder25.

**Metal surfaces:** chemically or physically remove oxides from surface and prime with ASA603 + Chlor. Wonder25 is easily applied with brush, roller or suitable spray equipment. When sprayed 12-14 mils can be applied in a single coat. Apply as packaged. If necessary, add small amounts of clean potable water to adjust workability.

**CLEAN-UP:** Water soluble prior to drying. Clean tools and containers with water prior to drying.

**DRYING TIME (recoat):** Approximately 30 minutes-4 hours depending upon temperature, humidity and substrate. Allow minimum 5 days curing before washing/scrubbing surface.

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