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Technical Information

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Witcobond[®] A-100

An aliphatic polyurethane dispersion

Witcobond A-100 urethane protective coating composition is a water-based colloidal dispersion of an alloyed aliphatic polyester based urethane and a polyacrylate. This material can be used as a functional, protective top finish or primer for metal, wood and concrete. Witcobond A-100 urethane protective coating composition should find applications in automotive, floor care and other industrial markets. Witcobond A-100 urethane protective coating composition does not contain acrylonitrile.

Latex Properties:

Appearance	Semi-translucent
Solids %	35
Particle Charge	Anionic
Particle size	Colloidal
Surface tension, dynes/cm	46
pH	7-9
Viscosity (Brookfield LV), cps @ 25°C	<100
Density (lbs/gallon)	8.7
Specific gravity at 25°C	1.05
Freeze/thaw stability.	Passed 6 cycles
Thermal stability (28 days @ 52°C)	Satisfactory
Mechanical stability	Satisfactory
VOC, Wt. %	1.1
VOC, g/L	33.5
Tg, °C	+77

Film Properties:

1. Application Properties of Films	
Set to touch, minutes	13
Dry to touch, minutes	20
Dry Through, minutes	60
2. Physical Performance Properties of Dry Films	
Hardness	
Pencil	3H
Sward	64
Taber abrasion (mg loss per 1000 cycles, CS-10 wheel, 1000g load)	29
Impact resistance, in lbs.	
Direct	160
Reverse	160
QUV weatherometer (alcad aluminum)	
Oxidation	No effect
Loss of gloss	No effect
Blistering	No effect
Yellowing	No effect

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Film Properties (continued)

Crosshatch Adhesion	
Untreated cold rolled steel	5B
Untreated aluminum	5B
Concrete	5B
Printed Paper	5B

3. Free Film Properties

Tensile strength, psi	7200
Ultimate Elongation, %	140
100% Modulus, psi	6500

All tests were conducted on 1.0 to 1.5 mil films, air-dried for seven days at room temperature.

Storage and Handling:

Please refer to our Material safety Data Sheet (MSDS). Witcobond aqueous dispersions should be mixed well before use. Shelf life is one year.