



PE-21

BY VORTEX

EQUIPMENT

- HVLP
- Pressure pot
- Airless sprayer
- Squeegee/short nap roller

DRY/FLASH TIMES AT 77°F

Flash between coats	15 mins
To touch	30 mins
Tack free	2 hours
To handle	4 hours
Recoat	1 hour
Hard dry	8 hours
Full cure	7 days

FILM THICKNESS

5-7 mils per coat

PHYSICAL PROPERTIES

Solids by weight	65%
VOC (mixed)	<100 g/L

POLYESTER URETHANE HYBRID

DESCRIPTION

PE-21 is a Polyester Urethane with a simultaneous moisture curing component that provides the most durable, chemical resistant, UV stable coating on the market. PE-21 is a great topcoat for other systems or direct-to-concrete on it's own. At a reasonable price point, PE-21 also makes an incredible premium concrete sealer to hold a beautiful gloss for decades to come.

APPLICATIONS

- Transportation
- Marine
- Aircraft
- Floor coating & topcoat
- Concrete sealer

ADVANTAGES

- Skydrol resistant/exceed industry standards
- High crosslinking density
- Color/gloss retention
- Chemical resistance
- Outstanding durability
- Spray applications for metal
- Squeegee/roller applications for concrete
- Flexibility

MIXING RATIO

1:1 with H060. For metal/industrial applications. Can be reduced 10-15% with S60/S70/S80/S90 depending on temperature. Can be accelerated us AD66.





TYPICAL PERFORMANCE CHARACTERISTICS

- **Abrasion Resistance**
Excellent
ASTM D 4060
- **Adhesion**
Excellent
ASTM D 4541 (1850 psi)
- **ASTM D3359 A/B (5/5)**
Excellent
- **Salt Spray Resistance**
Excellent
ASTM B 117 (Pass 1500 hrs.)
- **Direct Impact Resistance**
Very Good
ASTM D 2794 (140 in-lb)
- **Reverse Impact**
Very Good
ASTM D 2794 (50 in-lb)
- **Humidity Resistance**
Excellent
ASTM D 2247 (Pass 1000 hours)
- **Film Hardness 3H**
ASTM D 3363
- **QUV A**
Excellent
ASTM D 4587 (1500 hours-97%)
- **Initial Gloss at 60° 93 min**
ASTM D 523
- **Solvent Resistance Surpassed**
ASTM D4752 (1000 MHR)
- **Flexibility**
Excellent
ASTM D 522 Mandral

THEORETICAL COVERAGE

Industrial / Metal (Spray):
899 sq. ft. at 1 mil DFT (100% transfer efficiency).

CONCRETE (SQUEEGEE / ROLLER)

200 - 250 sq. ft. direct to concrete
300 - 350 sq. ft. as topcoat or with primer

APPLICATION CONDITIONS

Between 45°F and 110°F

CHEMICAL RESISTANCE

ASTM D 1308

1% Sodium Hydroxide	Excellent
5% Sodium Hydroxide	Excellent
10% Sodium Hydroxide	Excellent
10% Ammonia	Excellent
Diesel Fuel	Excellent
1% Hydrochloric Acid	Excellent
1% Sulfuric Acid	Excellent
10% Sulfuric Acid	Excellent
100% Ethanol	Excellent
1% Phosphoric Acid	Excellent
10% Phosphoric Acid	Excellent
MEK (Methyl Ethyl Ketone)	Excellent
Gasoline	Excellent
Skydrol	Excellent
DOT 3 Brake Fluid	Excellent

PRECAUTIONS

Some materials in this product may cause skin and eye irritation and/or sensitization or other allergic responses upon repeated contact. This product must be handled with extreme care and in strict adherence to good industrial practices. Before using it or any other product referred to in this bulletin, consult the applicable Safety Data Sheets for appropriate handling procedures and protective equipment.

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