

POLAPRIME 21™

Polyurethane Primer



Performance
Coatings & Sealants
Systems

DESCRIPTION

POLAPRIME 21 is a solvent-based, single component polyurethane primer that is highly effective over oxidized steel as well as new mild steel. Chemically reacts with the substrate to promote superior adhesion of the coatings to be applied. POLAPRIME 21 is an industrial maintenance coating designed for harsh operation conditions.

OUTSTANDING FEATURES

- ✓ Improves the cohesive strength of surfaces for maximum adhesion
- ✓ Removes substrate air pockets to prevent bubbles and pinholes
- ✓ Has rheology adjusted for optimum coverage and penetration
- ✓ Rapid drying reduces dirt pickup and meteorological interruptions
- ✓ Gives maximum bond performance between substrate and topcoat
- ✓ Highly cost effective and performance designed
- ✓ Protects against corrosion and undercutting from corrosive creep
- ✓ Encapsulates well adhered coating remnants
- ✓ Chemically converts type 2 rust to prevent corrosion
- ✓ Improves adhesion of coatings to concrete, wood, and metals

APPLICATION

CAUTION! Read this entire data sheet before continuing.

Surfaces must be free of dirt, loose debris, oil, grease, or other substances that would interfere with bond. It is advisable to have the surface as dry as possible. All repairs of damage or defects must be made prior to coating.

Stir thoroughly for three minutes, then keep the can covered whenever possible to prevent contaminating the primer.

Apply by spray, roller, or brush. Roller and brush techniques provide best penetration and performance results. For roller application, use a medium or short nap roller. For brush application, use a natural bristle brush. Apply enough Polaprime 21 only to cover the surface. It is not advisable to pour Polaprime 21

straight onto the surface. Apply the appropriate surface coating as soon as possible after thorough drying to prevent contamination of the surface, ideally within 36 hours. If the Polaprime 21 has been left exposed for more than 48 hours, the surface must be cleaned thoroughly to remove all dirt and contaminants.

Tools and equipment may be cleaned with Toluene, Xylene, or any high aromatic solvent suitable for polyurethanes.

POLAPRIME 21 may be used at very low temperatures; however, dew point of the surface must be at least 5° below application temperature.

SPECIFICATIONS	
Viscosity (cps)	200
VOC	325 gms/liter
Solvent	Naptha
Pounds per Gallon	7.3
Coverage	300 square feet per gallon, depending upon substrate
Packaging	1 gallon, 5 gallons
Color	Red or Gray
Shelf Life	12 months (unopened)

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LIMITATIONS

Do not apply Polaprime 21 if the temperature is predicted to drop below 35°F within 4 hours of completion of application. Do not apply any of the Polaprime 21 to saturated surfaces or substrates that have ice crystals entrapped. Do not apply if rain is forecast within 4 hours of completion of application. Use EP rated spray equipment.

MAINTENANCE

If an area becomes damaged, remove loose substrate and coating and clean the damaged area. Repair the substrate and re-prime, then topcoat with a finish coating to match the surrounding area.

PRECAUTIONS

Polaprime 21 is solvent-based. Avoid contact with skin and eyes. In case of contact with

skin, wash with soap and water for 15 minutes. For contact with eyes, immediately flush with clean water for 15 minutes and get medical attention in addition to flushing. Do not ingest. If ingested, do NOT induce vomiting and contact a physician immediately. Avoid inhalation of fumes. If aerosol mist is inhaled, seek immediate medical attention. Wear safety goggles, rubber gloves, coveralls, and filter mask when applying this primer.

Viscosity (cps)	200	ASTM D-2196
Pounds per Gallon	7.3	ASTM D-1475
Flashpoint	105°F	ASTM D-3278
Solids Content	67% B.W.; 71% B.V.	ASTM D-2369
Adhesion To Steel	800 p.s.i.	ASTM D-4541
Adhesion To Concrete	400 p.s.i.	ASTM D-4541
Drying Time (70°F, 70% R.H.)	90 minutes	ASTM D-1640
Hardness	2 H	ASTM D-3363
Wet Film Thickness	5 mils	ASTM D-1212
Dry Film Thickness	4 mils	ASTM D-1005
Water Vapor Transmission	0.1 perms	ASTM D-1653
Solvent Resistance	200 M.E.K. Double Rubs	ASTM D-5402

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