



Qualipur[®] 582

1. General Description

Qualipur 582 is a 2-component, low VOC, low/no odor, medium viscosity, polyurethane coating. It cures using chemical cross-linking to form a hard elastic, UV resistant, abrasion-resistant coating. Qualipur 582 has good chemical resistance and outstanding adhesion properties.

Basic Uses: A highly abrasion-resistant coating.

Colors: A gloss finish product available in 5 standard colors: Light Grey, Dark Grey, Charcoal, Tan, and Black. Special colors are available upon request.

2. Safety Guidelines

Always wear the recommended personal protective equipment. Avoid contact with eyes, skin, and clothing. Adequate ventilation is required during the application process.

Do not expose container to open flame, excessive heat, or direct sunlight.

3. Storage and Packaging

Qualipur 582 should be stored in a clean, cool, dry area in original unopened pail. Qualipur 582 has a shelf life of 1 year.

Packaging: 5 gallon unit (28.00 kg unit)

4. Coverage

For reference 1 mil of Qualipur 582 has a consumption rate of 1600 ft²/gal (0.00063 gal/ft² or 0.0406 kg/m²). A typical application of 15 mils has a consumption rate of 107 sqft/gal (0.0095 gal/ft² or 0.609 kg/m²).

5. Installation Guidelines

Surface Preparation:

See Qualideck Application Guide

Features and Benefits

- ✓ High abrasion and cut/tear resistant
- ✓ Excellent UV stability
- ✓ Versatile range of potential substrates
- ✓ Variety of color options
- ✓ Low VOC



Mixing:

Qualipur 582 is a 2-component polyurethane product; it requires mixing to ensure consistent curing and uniform color. Mixing is accomplished by premixing component “A” for 2-3 minutes. After premixing component “A”, pour the contents of component “B” directly into component “A” and mix using a jiffy paddle and low speed drill (400 to 600 rpm). Take care not to incorporate excessive air into the product. Mix components for 2 minutes in provided pail. Scrape down sides of pail and mix for an additional 1.5 minutes before proceeding with application.

Application:

See Qualideck Application Guide

Do Not sand to excess the Qualipur 582 top coat - sand saturation shall be in the Qualipur 372 coat.

Consult Application Guide for further information.

6. Limitations

- Minimum application temperature is 4°C (40°F).
- Do not apply over damp or wet substrates.
- Do not apply to surfaces with active moisture vapor transmission.

7. Technical Data

Results based on temperature of 68°F and 50% Humidity

VOC		20.23 g/L*
Solids Content		98%
Renewable Content		22.58%
Viscosity	ASTM D2196	1600 – 2400 cPs
Pot Life	ASTM C603	30-50 Minutes
Cure Time – Tack Free		3 – 5 Hours
- Foot Traffic	ASTM C920	24 Hours
- Final Cure		4 Weeks
Elongation	ASTM D412	81%
Tensile Strength	ASTM D412	1500 PSI
Hardness	ASTM D2240	45 D scale
Skid Resistance Dry		Pass
Skid Resistance Wet		Pass
Abrasion Resistance	ASTM D4060	50 mg loss
Flash Point	ASTM D93	Non Flammable

*based on standard formula calculation





Chemical Resistance Chart

Chemical	Qualipur 372	Qualipur 461	Qualipur 512	Qualipur 522	Qualipur 552E	Qualipur 582
Acetic Acid 10%	-	-	+	+	-	+
Acetic Acid 50%	-	-	-	+	-	-
Acetone	+	+	+	+	+	-
Anti-Freeze	+	+	+	+	+	+
Bleach	-	+	+	+	+	+
Brake Fluid	-	-	-	-	-	-
Caustic Soda	+	+	-	+	+	+
Gasoline	+	+	+	+	+	-
Hydraulic Fluid	+	+	+	+	+	+
Hydrochloric Acid 10%	-	-	-	+	+	+
Hydrochloric Acid 31%	-	-	-	-	-	-
Jet Fuel	+	+	+	+	+	+
Methanol	+	+	+	+	-	-
Mineral Spirits	+	+	+	+	+	+
Motor Oil	-	+	-	+	+	+
Phosphoric Acid 50%	+	-	-	+	-	-
Phosphoric Acid 70%	-	-	-	-	-	-
Potassium Hydroxide 50%	-	-	-	-	+	+
Simple Green	+	+	+	+	+	+
Skydrol	-	-	-	+	-	-
Sodium Hydroxide 50%	+	+	+	+	+	+
Sulfuric Acid 25%	-	-	-	-	-	-
Sulfuric Acid 50%	-	-	-	-	-	-

(-) --> Visual Defects Observed

(+) --> No Visual Defects Observed

Above figures are guide values and should not be used as a base for specifications

Consult the Safety Data Sheet (SDS) for more details.

For complete and latest warranty and product information, please visit www.advpolytech.com

