



Qualipur[®] 522

Features and Benefits

1. General Description

Qualipur 522 is a 2-component, aliphatic, low viscosity, UV stable polyurethane coating. Qualipur 522 shows exceptional chemical resistant properties against Skydrol, Diesel fuels, Jet fuels, and bleach.

Basic Uses: A top coat for texturized Qualideck floor / deck systems, and other specialty texturized systems that require specific chemical resistant properties.

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 522 should be stored in a clean, cool, dry area in original unopened pail. Product should be kept away from heat, sparks, and open flame. Qualipur 522 has a shelf life of 1 year.

Packaging: 3.0 gallon unit (13.83 kg unit).

4. Coverage

For reference an 8 mil wet application has a consumption rate of 0.0049 gal/ft² (204 ft²/gal) or 0.2426 kg/m² (4.1 m²/kg) and yields 3.9 dry mils.

5. Installation Guidelines

Surface Preparation:

Surfaces receiving an application of Qualipur 522 must be clean, sound, dry, and free of oils and other bond inhibiting contaminants. Apply Qualipur 522 on primed concrete or Qualipur surfaces that have received the recommended surface preparation (sandblasting or shot blasting are recommended to produce a clean and lightly textured surface). When top coating a system, if the recommended recoat time is exceeded (beyond a tack free cure) or if contamination of the substrate

- ✓ Skydrol resistant
- ✓ Bleach resistant
- ✓ Diesel fuel resistant
- ✓ Jet fuel resistant
- ✓ Low Voc
- ✓ Easy application
- ✓ UV stable
- ✓ Can be rolled or spray applied



occurs, consult Technical Service.

Mixing:

Qualipur is a 2-component polyurethane product; it requires mixing to ensure consistent curing. Mixing is accomplished by pouring the part B component directly into the part A component and mix using a jiffy paddle and low speed drill (400-600 rpm) take care not to incorporate excessive air into 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:

Apply product at the uniformed rate of 8 wet mils but, do not exceed 10 mils per coat. Multiple coats can be added only after a tack free cure has been achieved between coats. When squeegee applied, back roll coating for an even application. Product can be spray applied.

6. Limitations

- Minimum application temperature is 50°F and rising.
- Do not apply over damp or wet substrates.
- Do not apply to surfaces with active moisture vapor transmission.
- New concrete must cure 28 days prior to primer application.

7. Technical Data

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

VOC		117.5 g/L*
Viscosity	ASTM D1200	25 second run out
Cure Time – Tack Free		4-8 Hours
– Foot Traffic	ASTM D920	16 Hours
- Fianl Cure		24 Hours
7 Day immersion - Skydrol hydraulic fluid	ASTM D6943 Method A	No effect
24 Spot test-Skydrol hydraulic fluid	ASTM D1308	No effect
Bleach resistant		Pass
Jet Fuel resistant		Pass
Elongation	ASTM D412	9%
Tensile Strength	ASTM D412	7,100 psi
Hardness	ASTM D2240	30-40 D scale
Abrasion Resistance	ASTM D4060	36.1 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 572
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

