



Qualipur[®] 603

1. General Description

Qualipur 603 is a 1-component, aliphatic polyurethane elastic coating. It cures using moisture in the atmosphere to produce a seamless membrane with excellent physical properties. Qualipur 603 has excellent chemical resistance, high reflectivity and good adhesion to various substrates especially TPO roofs.

Basic Uses: A UV-stable, abrasion and chemical resistant coating used to refurbish existing TPO roofs.

Colors: White

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.

3. Storage and Packaging

Qualipur 603 should be kept dry and cool in original packaging. Product shelf life is 1 year in sealed container. Do not expose container to open flame, excessive heat or direct sunlight.

Packaging: 4.4 gallon unit (20 kg unit)

4. Coverage

For reference 20 mils of Qualipur 603 has a consumption rate of approximately 70 ft²/gal.

5. Installation Guidelines

Surface Preparation:

Surfaces receiving an application of Qualipur 603 must be clean, sound, dry, free of oils and all bond inhibiting compounds and contaminants. Dirt and other build up should be mechanically removed until the original surface is exposed. In addition to the mechanical means of cleaning, other methods may be required to sufficiently clean the substrate, such as power washing. If the recommended recoat time is exceeded or if contamination of the substrate occurs, consult your sales representative.

Mixing:

Features and Benefits

- ✓ Designed for TPO roofs
- ✓ One component
- ✓ Chemical/abrasion resistant
- ✓ Moisture insensitive during cure
- ✓ Low odor
- ✓ Aliphatic
- ✓ Excellent adhesion to common roofing materials
- ✓ Designed to withstand ponding water



Although Qualipur 603 is a 1-component polyurethane product, it still requires mixing to ensure consistent curing and uniform color. Mixing is accomplished by using a jiffy paddle and low speed drill (400 to 600 rpm) for 1 to 2 minutes so as not to incorporate excessive air into the product.

Application:

PRIOR TO APPLICATION, REMOVE ALL SOURCES OF IGNITION.

Top Coat Over TPO Systems- use a high quality roller, brush, or squeegee to apply a uniform film up to, but not exceeding 20 mils per coat. Product may also be sprayed applied. **This is a two coat system of 20 mils per coat = 40 mils DFT MINIMUM.**

Patch over TPO systems - use a high quality roller, brush, or squeegee to apply a uniform film up to, but not exceeding 20-40 mils per coat. Product may also be sprayed applied.

6. Limitations

- Minimum application temperature is 40°F (4°C) and rising.
- 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

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|---|--|------------------|
| VOC | | 138 g/L* |
| Brookfield Viscosity | ASTM D 2196, Method A | 3,625 CPS |
| Weight per Gallon | ASTM D 1475 | 10.2 lb/gal |
| Solids (%) | ASTM D 2939 | 90.9 % |
| Solar Reflectance Index | ASTM E 1980 | 103 |
| Solar Reflectance (Control) | ASTM D 6511 via ASTM C 1549 | 82 % |
| Solar Reflectance (High Temp Shelf Aging) | ASTM D 6511 via ASTM C 1549 | 80.1 % |
| Solar Reflectance (Xenon Arc Weathered) | ASTM G 155/ASTM D 6511 via ASTM C 1549 | 75.2 % |
| Resistance to Water (24 hours) | ASTM D 2939 | Resists water |
| Visual after Xenon Arc Weathering | GASTM 155 | No change/cracks |
| Cure Time – Foot Traffic | | 4 Hours |
| Tack Free Time | | 3 Hours |
| Tensile Elongation | ASTM D 412, Die C | 281 % |
| Tensile Strength | ASTM D 412, Die C | 2,674 psi |
| Hardness | ASTM D 2240 | 50 D Scale |
| Abrasion Resistance | ASTM C 501 | Avg. 60 mg |

*based on standard formula calculation

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

