



Advanced Polymer Technology

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Qualipur[®] 3421

1. General Description

Qualipur 3421 is a one component, solvent free straight, MDI polyurethane prepolymer. Qualipur 3421 was designed for use in low humidity, warm weather environments.

Basic Uses: Qualipur 3421 is designed for binding EPDM rubber granules in the production of synthetic sports surfacing in a low humidity environment.

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 3421 should be kept dry and cool. Storage temperature should be between 5°C (40°F) and 66°C (150°F). Do not expose containers to open flame, excessive heat, or direct sunlight. Product shelf life is 1 year in sealed container.

Qualipur 3421 is packaged at 20 kgs (approximately 5 gallons) 210 kgs (approximately 52 gallons), and 1050 kgs (approximately 264 gallons).

4. Coverage

Qualipur 3421 is ready for use as supplied and should be mixed with dry rubber granules are follows:

Qualipur 3421 – 20% by weight

Rubber granules – 80% by weight

5. Installation Guidelines

The surface to be coated must be clean, dry, and free of oil, grease, dirt, and any foreign residue.

The cure time varies with temperature and humidity. High temperature and high humidity will decrease cure time while low temperature and low humidity will increase it.

Features and Benefits

- ✓ One component
- ✓ Solvent-free
- ✓ Designed for use in low humidity, warm weather environments
- ✓ No VOC
- ✓ With enhanced UV stability

6. Limitations

- Do not apply over wet substrates
- Substrate and application minimum temperature 20°C (68°F)
- Substrate and application maximum temperature 50°C (122°F)
- Permissible relative humidity 10 - 30 %

7. Technical Data

VOC		0 g/L*
Density	At 23°C (73°F)	1.00 to 1.10 g/cm ³
Viscosity	At 23°C (73°F)	5400 to 7200 cPs
Color		Opaque/ Gold to Light Brown
Cure Time	At 35°C (96°F) 20% Relative Humidity	16 to 17 Hours

*based on Standard formula calculation

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

Consult the Material Safety Data Sheet / Safety Data Sheet for more Details

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

