

Macekote NT 447

Technical Data Sheet

Key Features

- Nano-Technology
- Outstanding abrasion resistance
- Excellent mechanical & chemical resistance
- Good adhesion and weather-ability
- Superb mar & scuff resistance
- Cross-linked properties w/o x-linker
- Clear and glossy films
- Excellent impact resistance

Description & Uses

Macekote NT 447 is a unique aliphatic, fine particle size, aqueous polyurethane that successfully incorporates nano-technology for greatly enhanced chemical and abrasion resistance. Coatings made with NT 447 consistently outperform single package urethanes as well as many crosslinked systems with superb alkali & solvent resistance and clear, glossy, dry/slick films that are extremely hard but not brittle. If desired, NT 447 can cross-linked with aziridine or a carbodiimide to improve early properties. NT 447 is based on our popular Macekote 8539 resin known for its unique rheology and excellent durability. Macekote NT 447 is used for high-performance wood finishes, automotive coatings, and similar applications where high abrasion and chemical resistance is required.

Physical Properties:

Chemical Class	Aliphatic polyester	Tensile PSI	9,000
Wet Appearance (relates to particle size)	Translucent	Elongation %	N/A ¹ (not brittle)
Viscosity cps	300 – 800	Gloss	90
Solids %	35 ± 2 %	Sward hardness	89
pH	7.80 – 8.80	Freeze/thaw stability	Yes
Water %	51.4	Thermal stability	Yes
Voc g/l calculated	289	Product density	8.51 lbs/gal
Modulus PSI	N/A ² (not brittle)	Emulsion class	Anionic

¹ Elongation reading was less than 5% and/or did not register on the testing apparatus

² Modulus at 100% elongation, if elongation is less than 100% then Modulus information is Not Applicable (N/A)

Handling: Store this product above 70° F and prevent from freezing. See material safety data sheet before use. The technical data or recommendations are given to the best of our knowledge but carry no guarantee or acceptance of responsibility. This data sheet becomes invalid as soon as a new edition has been published. Please contact us for the latest version. Issue date 10/04.

Mace Company

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