

## Macekote 8539 • Aliphatic, Polyester-based PUD

### KEY FEATURES

- Excellent mechanical & chemical resistance
- Outstanding abrasion resistance
- High/ low temp resistance, weatherability
- Enhanced adhesion on crosslinking
- Super mar & scuff resistance
- Excellent impact resistance
- Clear and glossy films
- Crosslinkable

### DESCRIPTION & USES

Macekote 8539 is an aliphatic, polyester based, low particle size, aqueous polyurethane dispersion. This product is one of our hardest polyurethanes, giving clear, glossy, dry/slick films with superb alkali and solvent resistance. Macekote 8539 is designed for rigid & flexible substrates and used as a base or top coat on wood, vinyl, plastic, paper, metal and other substrates. The product can be crosslinked with polyaziridine or carbodiimides for enhanced performance properties. On through drying, uncrosslinked Macekote 8539 yields the solvent resistance properties of a crosslinked system with no pot life issues.

### PHYSICAL PROPERTIES

<b>Chemical Class</b>	Aliphatic polyester
<b>Wet appearance</b>	Translucent
<b>Viscosity cps</b>	200-800
<b>Solids %</b>	35 ± 1%
<b>pH</b>	7.50 – 8.50
<b>Water %</b>	51.3
<b>Voc g/l calculated</b>	292
<b>Modulus PSI</b>	NA <sup>1</sup> (not brittle)

<sup>1</sup> Modulus at 100% elongation, if elongation is less than 100% then Modulus information is not applicable

<b>Tensile PSI</b>	9000
<b>Elongation %</b>	N/A <sup>2</sup> (not brittle)
<b>Gloss</b>	91
<b>Sward hardness</b>	89
<b>Freeze/ thaw stability</b>	yes
<b>Thermal stability</b>	yes
<b>Product density</b>	8.51 lbs/ gal
<b>Emulsion class</b>	Anionic

<sup>2</sup> Elongation reading was less than 5% and/ or did not register on the testing apparatus

### HANDLING & STORAGE

Store this product above 70°F and prevent from freezing. Consult SDS before use.

*The information contained herein relates to a specific Mace Polymers & Additives product and its use, and is based on information available as of the date issued. Additional information relating to the product can be obtained from the related SDS. Nothing in this data sheet shall be construed to constitute a representation or warranty, express or implied, regarding the product's characteristics, use, quality, safety or fitness for a particular purpose. Additionally, no statements made herein may be construed as permission or recommendation to use any intellectual property without permission of the owner.*

**Mace Polymers & Additives Inc.**  
A COMPANY OF PROTEX INTERNATIONAL

38 Roberts Road (PO Box 1517), Dudley, MA 01571  
(508) 943-9052 • [info@maceco.com](mailto:info@maceco.com) • [www.maceco.com](http://www.maceco.com)