

Macekote 5218 Technical Data Sheet

Key Features

- Excellent chemical, alkali & stain resistance
- Outstanding abrasion resistance
- Tough yet flexible
- Excellent impact resistance
- Good weatherability
- Crosslinkable

Description & Uses

Macekote 5218 is a fully reacted aliphatic polyurethane supplied as a fine particle size dispersion in water and co-solvent. Upon drying Macekote 5218 produces tough, clear, high gloss, non-brittle films that display superior properties when compared to other thermoplastic binders. Macekote 5218 is one of the hardest urethanes we have to offer and it has excellent chemical, solvent, alkali and abrasion resistance. Typical end uses include top coatings for wood, plastics and metal for superior, durable, scuff resistant coatings. Macekote 5218 is a high performance water based urethane designed to replace traditional solvent based resins. You can enhance the performance of Macekote 5218 by using our C-70 crosslinker 4% by weight on wet basis.

Physical Properties

Chemical Class	Aliphatic polyester	Tensile PSI	10,000
Wet Appearance (relates to particle size)	Translucent	Elongation %	< 5
Viscosity cps	200 – 500	Gloss	95
Solids %	35 ± 1 %	Sward hardness	94
pH	7.50 – 8.00	Freeze/thaw stability	>6 cycles
Water %	51	Thermal stability	yes
Voc g/l calculated	309	Product density	8.67 lbs/gal
Modulus PSI	N/A ¹	Emulsion class	Anionic

¹ 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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The Polyurethane Specialists

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