



MapleSolutions

3019 Lake Road, Dollard Des Ormeaux, QC, H9B 2R3 Canada - Tel : 1 (514) 472 0094 www.maplechemicals.com

TECHNICAL BULLETIN

MA-SIL WS

STATEMENT OF USE

MA-SIL WS is an amino functional cationic polymer that reacts during drying to give a durable silicone finish on fibres and fabrics. MA-SIL WS is cationic in nature and can be applied by exhaust or pad applications.

TYPICAL PROPERTIES

Appearance	Translucent liquid
pH (as is)	4.0 - 5.0
Activity	22 \pm 1
Density	8.2 lbs/gal
Ionic Nature	Cationic

ADVANTAGES

- Provides a full, soft hand with excellent drape and body.
- Provides excellent hand on open-end yarns.
- Low yellowing; little to no effect on shades.
- Excellent compatibility with many conventional finish bath auxiliaries.
- Compatible with nonionics and other cationics
- Improves physical properties of fabrics including wrinkle recovery, tear and strength.
- Can produce a durable finish when applied with resin and catalyst.
- Exhibits excellent shear properties.
- Exhibits excellent salt stability:
 - Common Salt 60 g/l
 - Glauber Salt 80 g/l

APPLICATION

MA-SIL WS may be applied by either exhaust method or by padding in single component baths, in combination with other finishing components, or in resin systems.

Exhaust: Typical levels of 0.25% - 1.0% owg MA-SIL WS are recommended for delivery of luxurious, silicone hand while maintaining excellent whiteness, low-yellowing performance. Exhaust conditions recommended for MA-SIL WS are 120°F - 140°F for 10 to 15 minutes. Normal drying temperatures are sufficient for curing to produce a durable silicone finish.

Note: For efficient exhaustion, the pH of the finish bath should be 4.5 - 5.0. If the bath pH is above this level, it is recommended that the pH be adjusted with acetic acid.



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As with most cationic softeners, higher exhaust temperatures and longer exhaust cycles (WITHIN RECOMMENDED LIMITS) maximize exhaust efficiency.

Pad: For pad application, typical bath concentrations of 0.5% - 2.0% owb MA-SIL WS are recommended for delivery of luxurious hand and excellent whiteness/low-yellowing performance. Normal drying temperatures are sufficient for curing to produce a durable silicone finish.

MA-SIL WS may be padded in single component "pure finish" baths, in resin systems or in combination with other finishing components. While MA-SIL WS demonstrates excellent resin compatibility, the bath compatibility and stability of any multi-component system must be checked before application.

STORAGE AND HANDLING

Normal precautions taken with all chemical auxiliaries should be used. DO NOT LET THIS PRODUCT FREEZE !!!

PACKAGING

Available in returnable drums.

PHYSIOLOGICAL DATA

For Industrial Use Only: The usual precautions in keeping chemicals from the eyes and skin and avoiding ingestion and prolonged inhalation of vapors should be observed.

While every care has been taken to ensure the accuracy of the information contained in this publication, no warranty or liability will be accepted as the conditions of usage are beyond our control. Product specifications can be provided upon request.

Our Technical Sales Department is available to assist customers in preparing formulae and procedures to suit their specific requirements. Production trials are recommended to determine effectiveness. Process information submitted by our customers will be treated in confidence.