



Technical Data Sheet

Maximum-Stretch®

Stock Code

MSS Series

Packaging Information

- 1 Gallon Pail
- 5 Gallon Pail
- 55 Gallon Drum
- 250 Gallon Tote

Characteristics

Maximum-Stretch® is a white elastomeric, acrylic, rubberized roof coating and sealant with 650% elongation that resists cracking and peeling. With 88% light reflectivity, the bright white finish reduces surface temperatures resulting in a reduced cooling cost and thermal expansion and contraction. Designed for low-slope roof maintenance on metal, built-up roofing, rolled roofing, modified Bitumen concrete, EPDM, and wood.

VOLUME SOLIDS	33%
WEIGHT PER GALLON	ASTM D1475 9.67 lbs./ gallon
ADHESION TO VARIOUS SUBSTRATES	ASTM D903 PLI> 5.00 Dry Galvanized Steel, Plywood, Concrete, Aluminum
COLOR	White & Custom Colors available
COVERAGE	1 gallon per 100 sq. ft. per coat (minimum 2 coats required)
DRY FILM THICKNESS (@ 1 GAL/100 SQ. FEET)	5.3 Mils per coat (Minimum 10.6 Mils total DFT required)
DRY TIME	At 40° - 80° F 2-8 hours. Allow 24 hours between coats
CURE TIME	7- 10 days
ELONGATION	ASTM D2370 up to 650%
FLASH POINT	>200°F
HUMIDITY	Best applied at 50% humidity or below
INITIAL EMITTANCE	ASTM C1371 - 0 .85
INITIAL REFLECTANCE %	ASTM C1549 - 88.0%
MOLD & MILDEW RESISTANCE	ASTM G21 Excellent
PH AS SHIPPED	ASTM E70 8.75-9.25
REFLECTANCE % AFTER 3 YEARS	ASTM C1549 - 75.63%
SHELF LIFE	24 Months Unopened
TEAR RESISTANCE	ASTM D624 77.0 lbs./in
V.O.C CONTENT	< 25 g/l
VAPOR PERMEABILITY	ASTM E96 Desiccant Method 0.96 perms
VEHICLE TYPE	Acrylic/Styrene Butadiene
VISCOSITY	ASTM D2196 6000-7000 cps spindle # 6@100 rpm

Compliance

SCAQMD	Yes
ACCELERATED LOW TEMPERATURE FLEX	ASTM D522 Type I Pass ASTM D522 Type II Pass

Surface Preparation

All surfaces must be sound and free of frost, dirt, grease, oil, spalled areas, loose nails, screws, sharp protrusions, or other contaminants that will hinder the adhesion of the membrane installation. Clean loose dust and dirt from the surface by brushing or wiping with a clean, dry cloth brush or broom. Do not cover wet or soft spots until dry or replaced. Surface must be completely dry before coating.

Application Methods

Apply between 50° - 90° F on a warm dry surface. Surface temperature must be 5° F higher than the dew point and rising.

- **Brush:** Nylon/polyester
- **Roller:** 3/8" - 1/2" nap nylon/polyester
- **Sprayer:** Always use airless equipment (see spray application section below for details)

Application Instructions

Review product Application Guide before proceeding. Conduct a test patch to ensure proper adhesion.

Maximum-Stretch should be applied on a properly and adequately drained roof and the roof surface must be clean, dry and in savable condition. Some areas may require periodic preventative maintenance. Ames Research Laboratories Technical Service Representatives are available to assist in determining the correct Maximum Stretch Roof System for your specific roof.

- Spray or pour out Maximum-Stretch onto surface. Spread in 1- or 2-gallon increments if applying by squeegee, push broom or roller
- Even up the coating application with a roller as needed to maintain a uniform thickness
- Work on manageable sections of roof allowing you time to properly apply the materials prior to materials beginning to dry
- If spraying it may be advantageous to back roll through the first coat during application to infill rough surfaces. Always contact Technical Services when in doubt

Spray Application

- Airless Equipment sizing should have a flow rate of 1.0 – 2.0 GPM, 2500 to 3000 PSI, Heavy Duty Reverse-clean tip (without diffuser pin) sizes 629 (12" fan .029 orifice size) to 633 (12" fan .033 orifice size). Hose size 3/2" reduced to 1/4" before connection to gun swivel.
- If airless has a machine filter in addition to the intake rock screen we recommend either a 40-mesh filter or temporarily removing the machine filter cartridge altogether.
- Airless equipment should be cleaned after use without delay
- Contact Ames Research Laboratories Technical Service Department for more information, guidelines, and recommendations on spray application.

Disclaimer

The information and specifications set forth in this Technical Data Sheet are based on tests conducted by or on behalf of Ames Research Laboratories, Inc. All information is subject to change and pertains to the product available at time of publication. Please contact Ames Research Laboratories to receive the most recent Technical Data Sheet.

Clean-up, Storage & Disposal

- Clean up application equipment, tools, spills, hands immediately after use with water
- Store unused product in the original container tightly sealed
- Dispose of this product in accordance with local, state, or federal requirements
- Protect from freezing

Cautions

- Do not take internally
- Keep out of reach of children
- Avoid contact with skin and eyes
- Use hand and eye protection when using this product
- Wash with soap and water after contact with skin
- If eye-contact occurs rinse with clean water and seek medical advice if symptoms continue

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