



SOPREMA INC  
1675 HAGGERTY  
DRUMMONDVILLE, QC.

TECHNICAL DATA SHEET  
090716SCAN1E

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## SOPRASTAR R-NOVA Reflective Roof Coating

**Description:** *SOPRASTAR R-NOVA* is a water-based white elastomeric acrylic latex roof coating. It is used in conjunction with *SOPRASTAR GR* cap sheet membranes to cool down the surface temperature of the roofing system by reflecting the sun's rays and consequently extending its service life.

**LEED® Solutions:** The following are Soprema's solutions using *SOPRASTAR R-NOVA* and *SOPRASTAR GR* membranes to meet the requirements of the Canada Green Building Council's (CaGBC) LEED® credit SS7.2 regarding heat island. These are based on information provided by the CaGBC in their document entitled: "Reference Guide Addendum LEED® Canada-NC v1.0 – September 2007".

**For Low Slope (< 2:12)**

The CaGBC defines low-slope as a slope of 2:12 or less. According to the Credit Interpretation Ruling (CIR) #184, the CaGBC permits a weighted average calculation of the Solar Reflective Index (SRI), which results in a SRI requirement of 66. The combination of the *SOPRASTAR GR* (SRI=56) for 82 % of the roof coverings with *SOPRASTAR R-NOVA*'s highly reflective roof covering (SRI=112), for the remaining 18 % will meet the required weighted average of 66.

**Installation:** Before the application, stir *SOPRASTAR R-NOVA* to a uniform consistency and do not dilute. Apply on a warm sunny day when the surface to be coated is warm to the touch but not exceeding 60 °C. Do not apply when air temperature is below 10 °C, or if there is a chance of rain, fog, dew or temperatures below 10 °C within 48 to 72 hours. Apply *SOPRASTAR R-NOVA* to a clean and dry *SOPRASTAR GR* by spraying, with a deep-pile roller or with a brush. When installing a coat of *SOPRASTAR R-NOVA* keep the application method in one direction. Apply in two coats during the same day, at a rate of 0.5 L/m<sup>2</sup> (1.25 US gal/square) per coat. Allow to dry thoroughly between coats. The second coat is applied at right angle to the first coat and schedule work to permit the entire application to dry before sunset.

### Properties:

Properties	Standards	SOPRASTAR R-NOVA
Physical State	-	Viscous Liquid
Color	-	White
Specific Gravity (g/L)	-	1.34
Brookfield Viscosity (cP)	ASTM D2196	30 000 – 40 000
Solids by Volume (%)	ASTM D2697	> 52
Solids by Weight (%)	-	> 65
SRI Value	ASTM E1980	112
Ultimate Elongation (%)	ASTM D2370	> 250
Tensile Strength (MPa)	ASTM D2370	> 1.65 (> 240 psi)
Maximum V.O.C (g/L)	-	50

(All values are nominal)

**Packaging:** 18.9 L pails  
Shelf life: Up to 12 months in original sealed containers.  
**KEEP FROM FREEZING.**

**Cleaning:** Uncured material can be cleaned with water. Cured material is best removed by solvents such as mineral spirits, varsol, xylene, etc.

**Precautions:** Keep out of reach of children. Harmful if inhaled, swallowed or when in contact with the skin. Do not pour residues in drains. Do not apply on roofs that ponding water will remain for more than 48 hours after rainfall.

**CONSULT THE MATERIAL SAFETY DATA SHEET PRIOR TO USE.**

1.877.MAMMOUTH  
[www.soprema.ca](http://www.soprema.ca)

**NOTE:** SOPREMA INC. may modify the composition and/or utilisation of its products without prior notice. Consequently orders will be filled according to the latest specification.

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