


DESCRIPTION

NovaSet® ISW PatchGrade is a unique trowel applied mastic, caulking material and joint filler. It is composed of an advanced engineered blend of thermo-active polymerized modified emulsion (PME) technology. This fully bonded, and self-healing waterborne mastic material provides superior resistance and longevity for a multitude of high-performance and complex detailing applications.

NaturaSeal® - PME TECHNOLOGY

NaturaSeal's unique environmentally conscious post-blending and instant setting polymerized modified emulsion (PME) technology was created to offer the most effective, resource friendly products and contribute towards sustainable urbanization.

BENEFITS	Cold-applied, non-flammable and non-toxic
	Eco-friendly
	Solvent-free and odorless
	Low VOC
	Allows for expansion and contraction at varying temperatures
	Easy to install, seamless, monolithic, no vulnerable joints
	Versatile, bonds to a variety of substrates
	UV and weathering resistant material
	Flexible, ideal for complex detailing
	Superior adhesion
High reflectivity for energy savings	

INSTALLATION		TROWEL APPLIED	APPLICATION	Metal Roof Assembly
				Cool Roof Assembly
				Single-Ply Roof Assembly
				Re-Roof Assembly (including spray foam)
				Built Up Roof (BUR) Assembly
				SBS modified bitumen
				Concrete

HEALTH SAFETY AND ENVIRONMENT

NovaSet® ISW PatchGrade does not contain any substance likely to be detrimental to health or to the environment. For further information please refer to relevant Safety Data Sheet (SDS).

INSTALLATION GUIDELINES

- All substrates must be clean and free of debris, dirt and mildew.
 - Do not apply when subjected to rain.
 - Do not apply when temperatures are below 40°F (5°C).
 - Temperature and humidity conditions will affect drying time.
- For further information please refer to www.naturaseal.com for the most up-to-date and complete installation guidelines for each substrate.

COMPONENTS

- NovaSet® ISW BrushGrade
- Naturaseal 200R reinforcement fabric
- NS-DTM Primer

COVERAGE

NovaSet® ISW PatchGrade is applied using a trowel or caulking tube. NovaSet® ISW PatchGrade is fully cured in 24 to 48 hours depending on temperature and relative humidity. Coverage rate varies depending on substrate and detailing requirements.

For equipment, application and coverage rate details, please refer to NaturaSeal Installation Guidelines specific to your substrate.

QUALITY MANAGEMENT

NaturaSeal is committed to creating unparalleled new technologies, minimizing the negative impacts on the environment and communities. Our manufacturing facilities are independently monitored and certified ISO 9001, ISO 14001, ISO 45001 and CE.

- Please refer to NaturaSeal for the most up-to-date Technical Data Sheet (TDS).
- NaturaSeal Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) requirements.

SHELF LIFE

Material will have a 12-month shelf life if stored in a dry and properly ventilated space, protected from the elements or any harmful substances.

STORAGE AND USE

- Ensure all pail lids and tube caps are sealed and air-tight prior to use.
- Properly mix each tote, drum or pail prior to use.
- Do not store in direct sunlight or temperatures ≥ 90°F (32°C).
- Avoid storing or using the product in temperatures ≤ 40°F (5°C).

NaturaSeal® products support sustainable and energy-efficient building practices, contributing to LEED® certification (LEED® for New Construction).

SUSTAINABILITY			
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PRODUCT INFORMATION

Property	NovaSet® ISW PatchGrade
pH	8 - 9
Odor	None
VOC	Low
Solar Reflectivity	Initial: 0.86, Weathered: 0.80*
Solar Reflectance Index (SRI)	Initial: 109, 3 Years: 100*
Thermal Emittance	Initial: 0.91, Weathered: 0.90*
Color	White
Packaging	20 L Pail / 600 ml Tube

*CRRC Rapid Ratings: These are interim laboratory-aged values that simulate weathered values.

Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effects of solar reflectance and thermal emittance on building performance may vary. Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.

CERTIFICATES

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, CE

TECHNICAL INFORMATION

Property	Standard	NovaSet® ISW PatchGrade
Viscosity	ASTM D2196	36,500 cps
% Solids by weight	ASTM D1644	64.7 %
% Solids by volume	ASTM D2697	78.9 %
Tensile strength	ASTM D2370	215 psi
Elongation	ASTM D2370	376 %
Tensile strength (post UV exposure)	ASTM D2370	202 psi
Elongation (post UV exposure)	ASTM D2370	287 %
Permeance	ASTM D1653	8.035 perms
Water swelling	ASTM D471	12.2 %
Accelerated weathering (1000 Hrs)	ASTM D4798	PASS (no cracking)
Wet peel adhesion (galvanized)	ASTM D903	4.85 pli
Wet peel adhesion (concrete)	ASTM D903	3.85 pli
Tear resistance	ASTM D624	92.6 lbf/in
Low temperature flexibility at -29°C	ASTM D522	Pass

Information contained in this data sheet is up-to-date and correct as at the date of issue. All values represented are nominal and subject to 10% tolerance unless noted otherwise.

We warrant that our products are in conformance with the standards of quality control established by NaturaSeal. As we cannot control or anticipate the conditions under which the products may be used, each user should review the information in specific context of the planned use. NaturaSeal makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE with respect to NaturaSeal Products.

To the maximum extent permitted by law, NaturaSeal will not be responsible for damages of any nature resulting from the use or reliance upon the information contained in this data sheet.

Please contact NaturaSeal for applicable warranty programs and general terms and conditions.

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AFFILIATES



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