

NovaSet® ISW PatchGrade

Trowel Applied, Single-Component PME Waterproofing

TECHNICAL DATA SHEET ISWPG081525NNA01

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 green engineering solution
- 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

SUSTAINABILITY

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



COVERAGE

Dry Film Thickness (DFT)	Wet Film Thickness (WFT)	SF/Gal	SF/L
40 Mills	75 Mills	5.81	22.06

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 guides in force.

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 Material Safety Data Sheet (MSDS) are in alignment with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) requirements.

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 heavy rain.
- Do not apply when temperatures are below 5°C (41°F) without winterized kit.
- Temperature and humidity conditions will affect drying time.

For further information refer to NaturaSeal installation guides.

COMPONENTS

- NovaSet® ISW BrushGrade
- NS-200R Geotextile Fabric
- NS-DTM Primer

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 pail prior to use.
- Do not store in direct sunlight or temperatures $\geq 32^{\circ}\text{C}$ (90°F).
- Avoid storing or using the product in temperatures $\leq 5^{\circ}\text{C}$ (41°F).

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CERTIFICATES

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

PRODUCT INFORMATION

Property	Typical Results
pH	8 - 9
Odour	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*
Colour	White
Packaging	20 L Pail / 600 ml Tube

*ORRC 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.

TECHNICAL INFORMATION

Performance (Cured Membrane)	ASTM Method	Typical Results
Brookfield viscosity @ 25°C (77°F)	D562	96,000 cPs
Specific Gravity (g/cm³)		
% Solids by weight	D1644	62 ± 2
% Solids by volume	D2697	55 ± 2
Tensile strength (psi)	D2370	295 ± 25
Elongation (%)	D2370	300 ± 20
Water Vapour Transmission (perms)	D1653	3.0 ± 1
Adhesion Pull-Off Strength (kPa)	D4541	164.86
Tear resistance (lbf / in)	D624	90 ± 5

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 in force.

AFFILIATES



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