



Air Barrier NS-A250-HP™

Fluid-Applied, Elastomeric, High-Permeable Membrane

TECHNICAL DATA SHEET A250HP062525NNA01

DESCRIPTION

Air Barrier NS-A250-HP™ is an elastomeric asphalt based coating for Institutional, Commercial and Residential Weather Resistant barrier applications. NS-A250-HP™ is weather resistant, water-proof, vapour resistant, UV stable, eco-friendly, and safe to use. NS-A250-HP™ is a highly versatile elastomeric coating that is cold-applied using a spray system. With its unsurpassed ability to expand and contract, it can easily withstand all weather conditions.

NaturaSeal® - PMAE TECHNOLOGY

NaturaSeal manufactures products utilizing unique green PMAE Technology and raw materials that are derived from recycled effluent asphalt, wood chip and paper pulp.

BENEFITS

- Suitable for most materials, including wood, insulation, foam, fibre board, and more
- Elongates up to 486%, with 95% recovery
- Can withstand temperature changes and surface shifts without cracking or straining
- Self-heals if punctured
- Environmentally friendly, and free of toxins and VOCs
- Acts as a rain screen
- Seamless and monolithic membrane

INSTALLATION



SPRAY APPLIED

APPLICATION

Residential / Commercial

Mid/High Rise

Passive Homes

HEALTH SAFETY AND ENVIRONMENT

Air Barrier NS-A250-HP™ does not contain any substance likely to be detrimental to health or to the environment. For further information please refer to relevant Material Safety Data Sheet (MSDS).

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 using a **winterized kit**, which allows applications down to -15°C (5°F).
- Temperature and humidity conditions will affect drying time.

For further information refer to NaturaSeal installation guides.

COMPONENTS

- BrushSeal HB-600-BR
- Patchseal PS-700-TG
- NS-200R Geotextile Fabric
- NS-SALT
- TD-100 Sealant
- NS-BST Seam Tape

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.



SUSTAINABILITY

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



COVERAGE

Dry Film Thickness (DFT)	SF/Gallon
35 Mills	29.79

Air Barrier NS-A250-HP™ dries to the touch in a few minutes @ 20°C (68°F) and is completely cured in 24hrs. This curing time may vary depending on temperature and relative humidity.

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 CE, ISO 9001, ISO 14001, ISO 45001 and DM-DCLD PRODUCT CONFORMITY, 2023 AL SA'FAT DUBAI GREEN BUILDING SYSTEM

- 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.

STORAGE AND USE

- Mix each drum for 5-7 mins with an electric mixer prior to use.
- Ensure lids to drums are sealed, and air-tight prior to use.
- Do not store in direct sunlight max 32°C (90°F).
- Avoid storing or using the product in temperatures below 4.5°C (40.1°F).
- NS -A250-HP™ is designed to serve a protective function rather than an aesthetic one.
- Resistant to UV exposure for up to 12 months.

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APPROVALS / CERTIFICATE

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

PRODUCT INFORMATION

Physical Properties	Typical Results
Specific Gravity (Liquid) g/cm ³	62.43 lbs/ft ³ (1 g/cm ³)
Odour	None
VOC, Method 310	Contains no solvents
Colour	Brown
% Solids	63%
Viscosity, SSF	25°C = 15-22 (77°F = 15-22)
pH	9-11

TECHNICAL INFORMATION

Performance (Cured Membrane)	ASTM Method	Typical Results
Thickness (mm)(mils)	D5147	.88mm / 35mils
Specific Gravity		1 Kg/m ³ (0.062428 lb/ft ³)
Impact Resistance	CSB 37-GP-56 @	23°C = Passed (73.4°F = Passed)
Tensile Adhesion Properties of Rigid Cellular Plastics	D1623	Passed
Water Tightness After Impact		Passed (No Leakage)
Tensile Strength	D412, psi	95
Elongation (%)	D412, psi	486%
Adhesion to Concrete Strength	C907 (Amended to tensile adhesion), psi	111
Accelerated Weathering	D155, D412	Passed (No Deterioration of Film)
Low Temperature Flexibility	CAN/CGSB 37.58 - M86	No Cracking Observed
Air Permeance Criteria Specified	E2178-13	0.0062 L/s.m ² (0.0012 cfm/ft ²)
Air Leakage (ABAA)	E2357-17	0.0358 L/s.m ² (0.0072 cfm/ft ²)
Water Penetration Resistance	E331-00	Passed
Water Vapour Permeance Specified	ASTM E96 - M16 (Water)	892 ng/Pa.s.m ² (15.6 US Perms)
Crack Bridging	CAN/CGSB 37.58-M86 & ASTM C1305	No Crack Bridging Observed
Biological Resistance	E154, D412	Passed (>90% Original Value)
Self Sealability	D1970	Passed
EIFS Adhesive for Bond Strength	CAN-ULC-S716.2	Passed
Standard for Air Barrier Assemblies	CAN-ULC-S742-11	Passed A1
Surface Burning Characteristics	CAN/ULC-S102.2	Less than 25 Flame Spread/ Less than 250 Smoke Development
Surface Burning Characteristics	UL 723 (E84)	Passed Class A
Fire Test Method	NFPA 285	Passed - Contact NaturaSeal for more info

Information contained in this data sheet is up-to-date and correct as at the date of issue. All value 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, we 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.

AFFILIATES



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