

AIRSEAL NS A-250-HP™

Fluid-Applied, Elastomeric, High-Permeable Membrane

Product Description

AIRSEAL NS A-250 HP is an elastomeric coating for Industrial, commercial and residential Air barrier applications. AIRSEAL NSA-250 HP is weather resistant, water-proof, vapour resistant, UV stable, eco-friendly, and safe to use. AIR SEAL NS A-250 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.

Features & Benefits

- Airseal NS A-250 HP coating can be used on almost any material, including wood, insulation, foam, and fibre board
- •It elongates up to 500%, with 98% recovery
- •This durable product can withstand temperature changes and surface shifts without becoming cracked or strained
- •This product self-heals if it is punctured
- •Environmentally friendly, and free of toxins and VOCs.
- •Acts as a rain screen
- •Seamless and monolithic membrane

Storage & Use

- AIRSEAL NS A-250 HP is designed to serve a protective function rather than an Aesthetic one.
- Although this product is highly versatile, there are some surfaces that it Is not recommended for, such as coal tar.
- Avoid storing or using the product in temperatures below 4.5 degrees Celsius.

Applications

- Residential
- •Mid/High Rise

Colour

BROWN

Limitation

Mildly alkaline. do not apply when the ambient temperature is below freezing. Do not apply to wet, frozen or frosted surfaces. Do not store in direct sunlight max 32°C (90°F) or below 5°C (41°F). For application below 0 degrees, please refer to manufacturers guidelines for equipment winterization.

Packaging

55-gal (205-L) drums 265-gal (1000- L) Totes

Coverage

AirSeal NS A-250 HP[™] is applied between 0.7 m2/litre (30 ft2/gal) to produce a 40 mil protective membrane to 0.175 m2/litre (7.5 ft2/gal) to produce a 160 mil membrane. SpraySeal dries to the touch in one (1) minute @20°C and is completely cured in 48 hrs. This curing time may vary depending on temperature and relative humidity. Typically an applicator crew can spray 6,000 ft2 (560 m2) per day.

Warranty

NaturaSeal warrants its Products to be free of defects in materials but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, NaturaSeal makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE with respect to NaturaSeal Products. NaturaSeal's sole obligation shall be, at its option, to replace or to refund the purchase price of the quantity of NaturaSeal Products proven to be defective, and NaturaSeal shall not be liable for any loss or damage.

Please refer to our website at www.naturaseal.com for the most up-to-date Product Data Sheets.

Note: All NaturaSeal Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) requirements

Free of Flammable Solvents

•Non-toxic

Odourless and Water Based

Corporate Office:

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PHYSICAL PROPERTIES

AIRSEAL NS A-250-HP™

Fluid-Applied, Elastomeric, High-Permeable Membrane

TYPICAL RESULTS

Specific Gravity (liquid) g/cm ³	Approx. 1.0
Odour	None
VOC	Contains no solvents

Colour Brown

% solids (wt.) 62

Viscosity, SSF @ 25°C 15 - 20рΗ 9-11

PERFORMANCE (CURED MEMBRANE) TYPICAL RESULTS

Colour Specific gravity , kg/m³ Approximately 1.0 Impact resistance CSB 37-GP-56 @23°C, in-lbs Passed (168) Water Tightness after impact Passed (no leakage) Tensile Strength, ASTM D412, psi 95 Elongation, % 486 Adhesion to Concrete Strength, ASTM C 907 (amended to tensile adhesion), psi Puncture resistance CGSB 37-GP-56, 24hr@29N, -5°C Passed (no puncture) Accelerated Weathering, ASTM 155, D 412 Passed (no deterioration of film) Hardness, Durometer Type 00 85-87 CAN/ULC-S102.2 Less than 20 Flame Spread / Less than 200 Smoke Development No Cracking Observed National Sanitation Foundation Potable Water Approved (call for details) Salt Fog Corrosion, Steel ASTM D412 1,000 Hours Passing Air Permeance Criteria specified in ASTM E2178- 13 0.0012 L/(S.M²) at a 75 Pa pressure differential Water Vapour Permeance specified in ASTM E96-16 (Water), ng/PA.s.M2 (perms) Water Resistance – AATCC 127 & ASTM E2556 Pass, 55cm of Water Head for 5 Hours Pull adhesion ASTM D4541, mPa 0.49 Crack Bridging CAN/CGSB 37.58-M86 & ASTM C1305 No Cracking Observed Biological resistance ASTM E 154, ASTM D412 Passed (> 90% original value) Self Sealability ASTM D1970 Pass CAN-ULC-5742-11 Pass A1		11116/1211200210
Impact resistance CSB 37-GP-56 @23°C, in-lbs Water Tightness after impact Tensile Strength, ASTM D412, psi Elongation, % Adhesion to Concrete Strength, ASTM C 907 (amended to tensile adhesion), psi Puncture resistance CGSB 37-GP-56, 24hr@29N, -5°C Accelerated Weathering, ASTM 155, D 412 Hardness, Durometer Type 00 CAN/ULC-5102.2 Less than 20 Flame Spread / Less than 200 Smoke Development Low Temperature Flexability CAN/CSGB 37.58- M86 National Sanitation Foundation Salt Fog Corrosion, Steel ASTM D412 Air Permeance Criteria specified in ASTM E2178- 13 Water Vapour Permeance specified in ASTM E96-16 (Water), ng/PA.s.M2 (perms) Water Resistance – AATCC 127 & ASTM E2556 Pass, 55cm of Water Head for 5 Hours Pull adhesion ASTM D4541, mPa Crack Bridging CAN/CGSB 37.58-M86 & ASTM C1305 Biological resistance ASTM E 154, ASTM D412 Passed (> 90% original value) Pass	Colour	Brown
Water Tightness after impact Passed (no leakage) Tensile Strength, ASTM D412, psi Elongation, % Adhesion to Concrete Strength, ASTM C 907 (amended to tensile adhesion), psi Puncture resistance CGSB 37-GP-56, 24hr@29N, -5°C Accelerated Weathering, ASTM 155, D 412 Passed (no puncture) Accelerated Weathering, ASTM 155, D 412 Passed (no deterioration of film) Hardness, Durometer Type 00 East than 20 Flame Spread / Less than 200 Smoke Development Low Temperature Flexability CAN/CSGB 37.58- M86 No Cracking Observed National Sanitation Foundation Potable Water Approved (call for details) Salt Fog Corrosion, Steel ASTM D412 Air Permeance Criteria specified in ASTM E2178- 13 Water Vapour Permeance specified in ASTM E96-16 (Water), ng/PA.s.M2 (perms) Water Resistance – AATCC 127 & ASTM E2556 Pass, 55cm of Water Head for 5 Hours Pull adhesion ASTM D4541, mPa O.49 Crack Bridging CAN/CGSB 37.58-M86 & ASTM C1305 No Cracking Observed Biological resistance ASTM E 154, ASTM D412 Passed (> 90% original value) Self Sealability ASTM D1970 Pass	Specific gravity , kg/m ³	Approximately 1.0
Tensile Strength, ASTM D412, psi Elongation, % Adhesion to Concrete Strength, ASTM C 907 (amended to tensile adhesion), psi Puncture resistance CGSB 37-GP-56, 24hr@29N, -5°C Accelerated Weathering, ASTM 155, D 412 Passed (no deterioration of film) Hardness, Durometer Type 00 CAN/ULC-S102.2 Less than 20 Flame Spread / Less than 200 Smoke Development Low Temperature Flexability CAN/CSGB 37.58- M86 No Cracking Observed National Sanitation Foundation Salt Fog Corrosion, Steel ASTM D412 Air Permeance Criteria specified in ASTM E2178- 13 Water Vapour Permeance specified in ASTM E96-16 (Water), ng/PA.s.M2 (perms) Water Resistance – AATCC 127 & ASTM E2556 Pull adhesion ASTM D4541, mPa Crack Bridging CAN/CGSB 37.58-M86 & ASTM C1305 Biological resistance ASTM E 154, ASTM D412 Passed (> 90% original value) Self Sealability ASTM D1970 Pass	Impact resistance CSB 37-GP-56 @23°C, in-lbs	Passed (168)
Elongation, % Adhesion to Concrete Strength, ASTM C 907 (amended to tensile adhesion), psi Puncture resistance CGSB 37-GP-56, 24hr@29N, -5°C Accelerated Weathering, ASTM 155, D 412 Hardness, Durometer Type 00 CAN/ULC-S102.2 Less than 20 Flame Spread / Less than 200 Smoke Development Low Temperature Flexability CAN/CSGB 37.58- M86 No Cracking Observed National Sanitation Foundation Potable Water Approved (call for details) Salt Fog Corrosion, Steel ASTM D412 Air Permeance Criteria specified in ASTM E2178- 13 Water Vapour Permeance specified in ASTM E96-16 (Water), ng/PA.s.M2 (perms) Water Resistance – AATCC 127 & ASTM E2556 Pull adhesion ASTM D4541, mPa Crack Bridging CAN/CGSB 37.58-M86 & ASTM C1305 Biological resistance ASTM E 154, ASTM D412 Passed (> 90% original value) Pass	Water Tightness after impact	Passed (no leakage)
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(amended to tensile adhesion), psi Puncture resistance CGSB 37-GP-56, 24hr@29N, -5°C Accelerated Weathering, ASTM 155, D 412 Passed (no deterioration of film) 85-87 CAN/ULC-S102.2 Less than 20 Flame Spread / Less than 200 Smoke Development Low Temperature Flexability CAN/CSGB 37.58- M86 National Sanitation Foundation Salt Fog Corrosion, Steel ASTM D412 Air Permeance Criteria specified in ASTM E2178- 13 Water Vapour Permeance specified in ASTM E96-16 (Water), ng/PA.s.M2 (perms) Water Resistance – AATCC 127 & ASTM E2556 Pull adhesion ASTM D4541, mPa Crack Bridging CAN/CGSB 37.58-M86 & ASTM C1305 Biological resistance ASTM E 154, ASTM D412 Self Sealability ASTM D1970 Passed (> 90% original value) Passed Self Sealability ASTM D1970 Passed Passed (> 90% original value)	Elongation, %	486
Puncture resistance CGSB 37-GP-56, 24hr@29N, -5°C Accelerated Weathering, ASTM 155, D 412 Hardness, Durometer Type 00 85-87 CAN/ULC-S102.2 Less than 20 Flame Spread / Less than 200 Smoke Development Low Temperature Flexability CAN/CSGB 37.58- M86 No Cracking Observed National Sanitation Foundation Salt Fog Corrosion, Steel ASTM D412 Air Permeance Criteria specified in ASTM E2178- 13 Water Vapour Permeance specified in ASTM E96-16 (Water), ng/PA.s.M2 (perms) Water Resistance — AATCC 127 & ASTM E2556 Pull adhesion ASTM D4541, mPa Crack Bridging CAN/CGSB 37.58-M86 & ASTM C1305 Biological resistance ASTM E 154, ASTM D412 Passed (> 90% original value) Passed Passed (> 90% original value)	• •	111
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Hardness, Durometer Type 00 CAN/ULC-S102.2 Less than 20 Flame Spread / Less than 200 Smoke Development Low Temperature Flexability CAN/CSGB 37.58- M86 No Cracking Observed National Sanitation Foundation Salt Fog Corrosion, Steel ASTM D412 Air Permeance Criteria specified in ASTM E2178- 13 Water Vapour Permeance specified in ASTM E96-16 (Water), ng/PA.s.M2 (perms) Water Resistance – AATCC 127 & ASTM E2556 Pass, 55cm of Water Head for 5 Hours Pull adhesion ASTM D4541, mPa Crack Bridging CAN/CGSB 37.58-M86 & ASTM C1305 Biological resistance ASTM E 154, ASTM D412 Passed (> 90% original value) Pass	Puncture resistance CGSB 37-GP-56, 24hr@29N, -5°C	Passed (no puncture)
Less than 20 Flame Spread / Less than 200 Smoke Development Low Temperature Flexability CAN/CSGB 37.58- M86 No Cracking Observed Potable Water Approved (call for details) 1,000 Hours Passing 0.0012 L/(S.M²) at a 75 Pa pressure differential Water Vapour Permeance specified in ASTM E96-16 (Water), ng/PA.s.M2 (perms) Water Resistance – AATCC 127 & ASTM E2556 Pass, 55cm of Water Head for 5 Hours Pull adhesion ASTM D4541, mPa Crack Bridging CAN/CGSB 37.58-M86 & ASTM C1305 No Cracking Observed Biological resistance ASTM E 154, ASTM D412 Passed (> 90% original value) Pass	Accelerated Weathering, ASTM 155, D 412	Passed (no deterioration of film)
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National Sanitation Foundation Salt Fog Corrosion, Steel ASTM D412 Air Permeance Criteria specified in ASTM E2178- 13 Water Vapour Permeance specified in ASTM E96-16 (Water), ng/PA.s.M2 (perms) Water Resistance – AATCC 127 & ASTM E2556 Pull adhesion ASTM D4541, mPa Crack Bridging CAN/CGSB 37.58-M86 & ASTM C1305 Biological resistance ASTM E 154, ASTM D412 Self Sealability ASTM D1970 No Cracking Observed No Cracking Observed No Cracking Observed Potable Water Approved (call for details) 1,000 Hours Passing 0.0012 L/(S.M²) at a 75 Pa pressure differential 417.4 ng/Pa-s-m² /7.3 US Perms Pass, 55cm of Water Head for 5 Hours 0.49 Crack Bridging CAN/CGSB 37.58-M86 & ASTM C1305 No Cracking Observed	CAN/ULC-S102.2	·
National Sanitation Foundation Salt Fog Corrosion, Steel ASTM D412 Air Permeance Criteria specified in ASTM E2178- 13 Water Vapour Permeance specified in ASTM E96-16 (Water), ng/PA.s.M2 (perms) Water Resistance – AATCC 127 & ASTM E2556 Pull adhesion ASTM D4541, mPa Crack Bridging CAN/CGSB 37.58-M86 & ASTM C1305 Biological resistance ASTM E 154, ASTM D412 Self Sealability ASTM D1970 Potable Water Approved (call for details) 1,000 Hours Passing 0.0012 L/(S.M²) at a 75 Pa pressure differential 417.4 ng/Pa-s-m² /7.3 US Perms 417.4 ng/Pa-s-m² /7.3 US Perms 0.49 Pass, 55cm of Water Head for 5 Hours 0.49 Crack Bridging CAN/CGSB 37.58-M86 & ASTM C1305 No Cracking Observed		Development
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(Water), ng/PA.s.M2 (perms) Water Resistance – AATCC 127 & ASTM E2556 Pass, 55cm of Water Head for 5 Hours Pull adhesion ASTM D4541, mPa 0.49 Crack Bridging CAN/CGSB 37.58-M86 & ASTM C1305 No Cracking Observed Biological resistance ASTM E 154, ASTM D412 Passed (> 90% original value) Self Sealability ASTM D1970 Pass	Air Permeance Criteria specified in ASTM E2178- 13	0.0012 L/(S.M²) at a 75 Pa pressure differential
Pull adhesion ASTM D4541, mPa 0.49 Crack Bridging CAN/CGSB 37.58-M86 & ASTM C1305 No Cracking Observed Biological resistance ASTM E 154, ASTM D412 Passed (> 90% original value) Self Sealability ASTM D1970 Pass	·	417.4 ng/Pa-s-m ² /7.3 US Perms
Crack Bridging CAN/CGSB 37.58-M86 & ASTM C1305 No Cracking Observed Biological resistance ASTM E 154, ASTM D412 Passed (> 90% original value) Pass	Water Resistance – AATCC 127 & ASTM E2556	Pass, 55cm of Water Head for 5 Hours
Biological resistance ASTM E 154, ASTM D412 Passed (> 90% original value) Self Sealability ASTM D1970 Pass	Pull adhesion ASTM D4541, mPa	0.49
Self Sealability ASTM D1970 Pass	Crack Bridging CAN/CGSB 37.58-M86 & ASTM C1305	No Cracking Observed
•	Biological resistance ASTM E 154, ASTM D412	Passed (> 90% original value)
CAN-ULC-S742-11 Pass A1	Self Sealability ASTM D1970	Pass
	CAN-ULC-S742-11	Pass A1

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