

Date: 2026



NaturaSeal Submittal Package

Project Name:

Application:

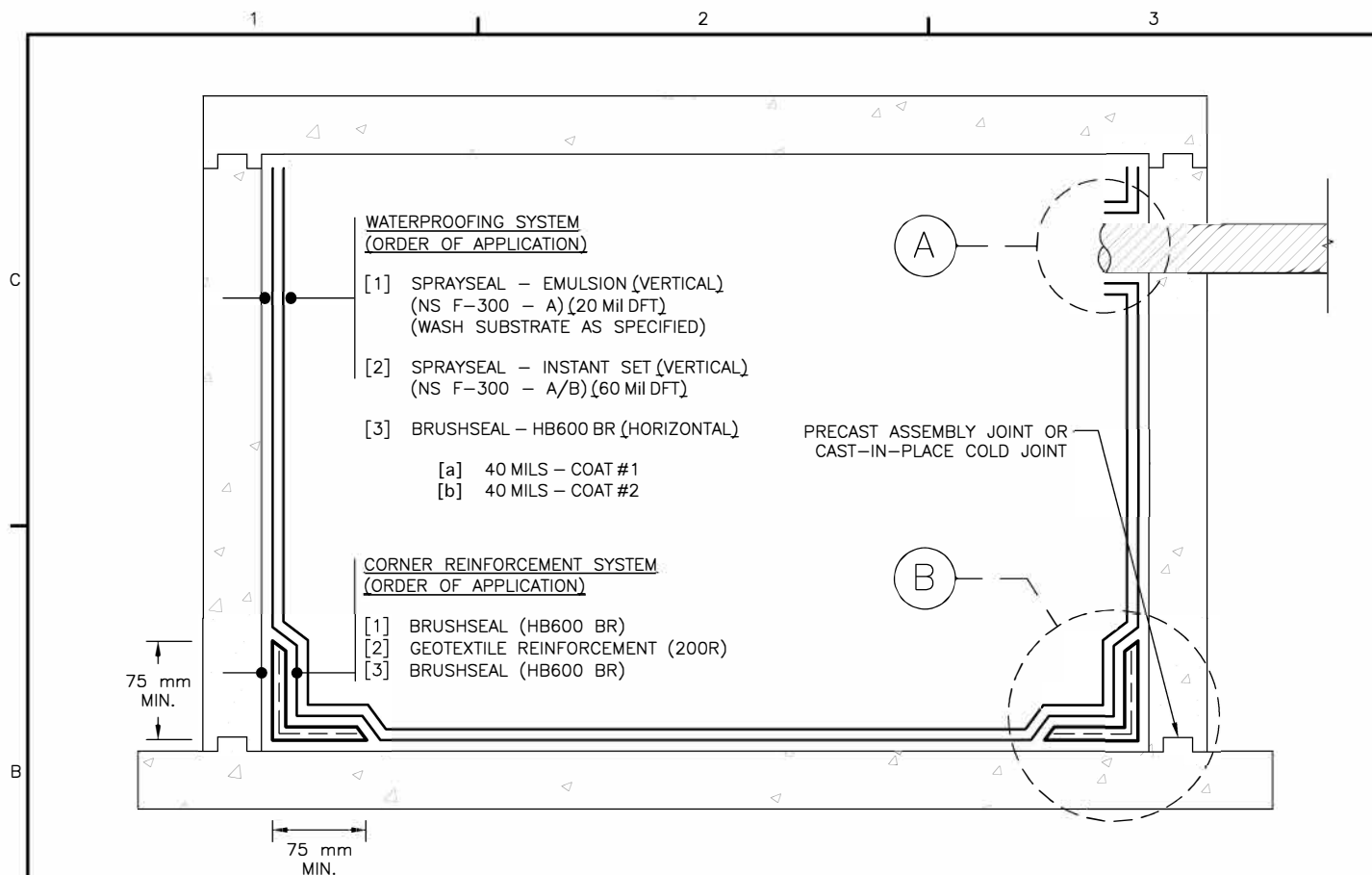
Waterproofing Contractor:

Architect:

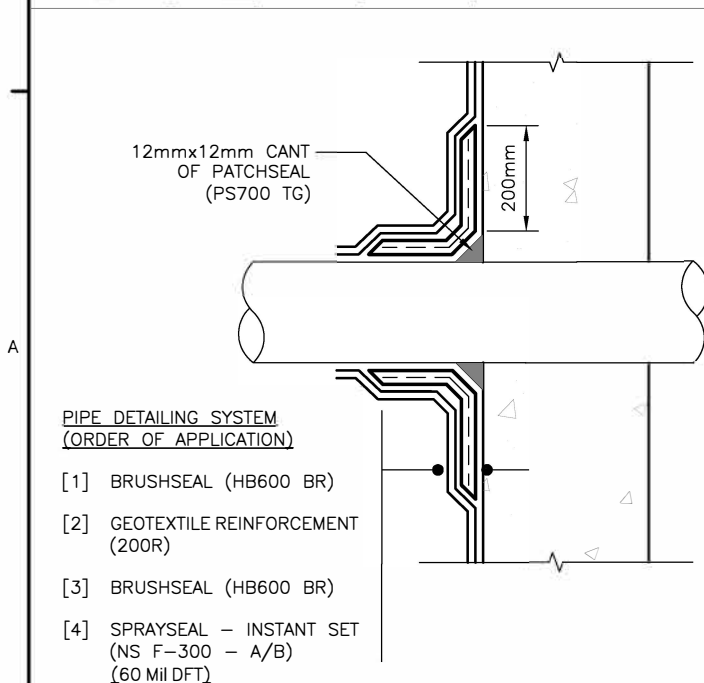
General Contractor:

B19:

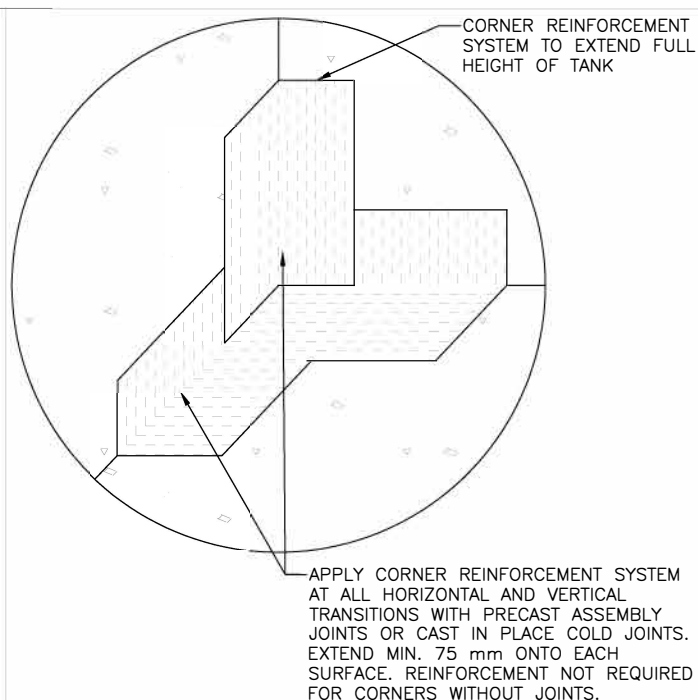
Underground Consultant:



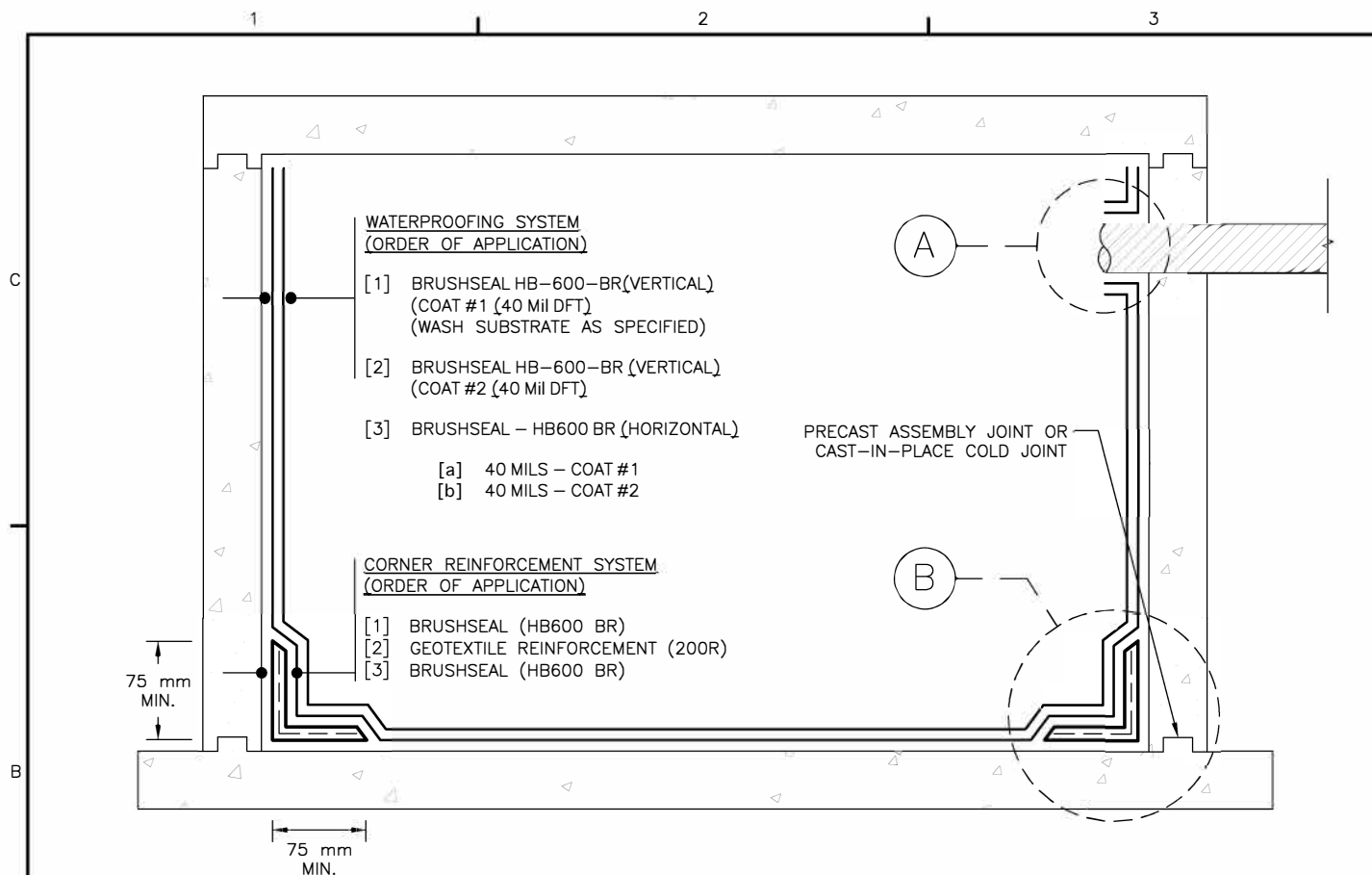
STORM WATER TANK – MEMBRANE APPLICATION



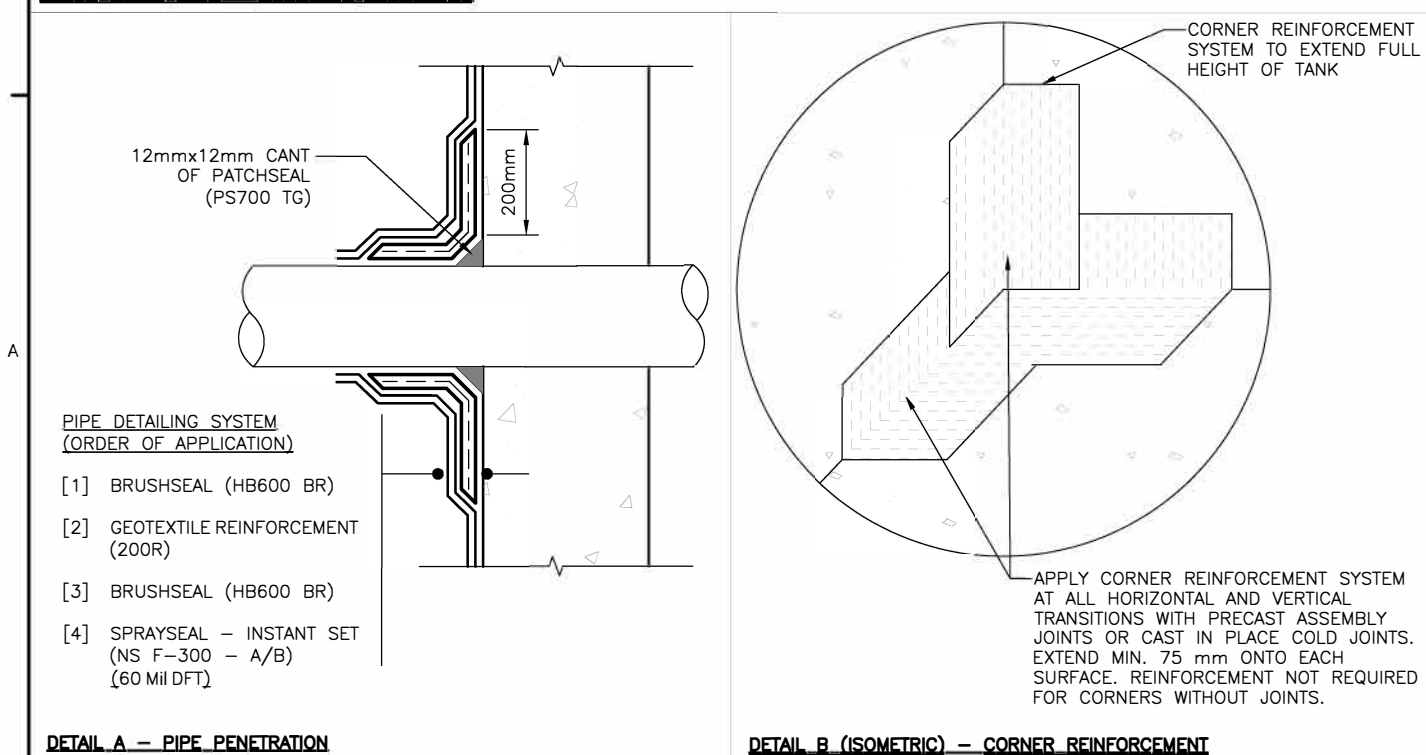
DETAIL A – PIPE PENETRATION



DETAIL B (ISOMETRIC) – CORNER REINFORCEMENT



STORM WATER TANK - MEMBRANE APPLICATION



DETAIL A - PIPE PENETRATION

DETAIL B (ISOMETRIC) - CORNER REINFORCEMENT



SPRAYSEAL COMMERCIAL DETAILS STORM WATER TANK

DRAWING PREPARED BY:

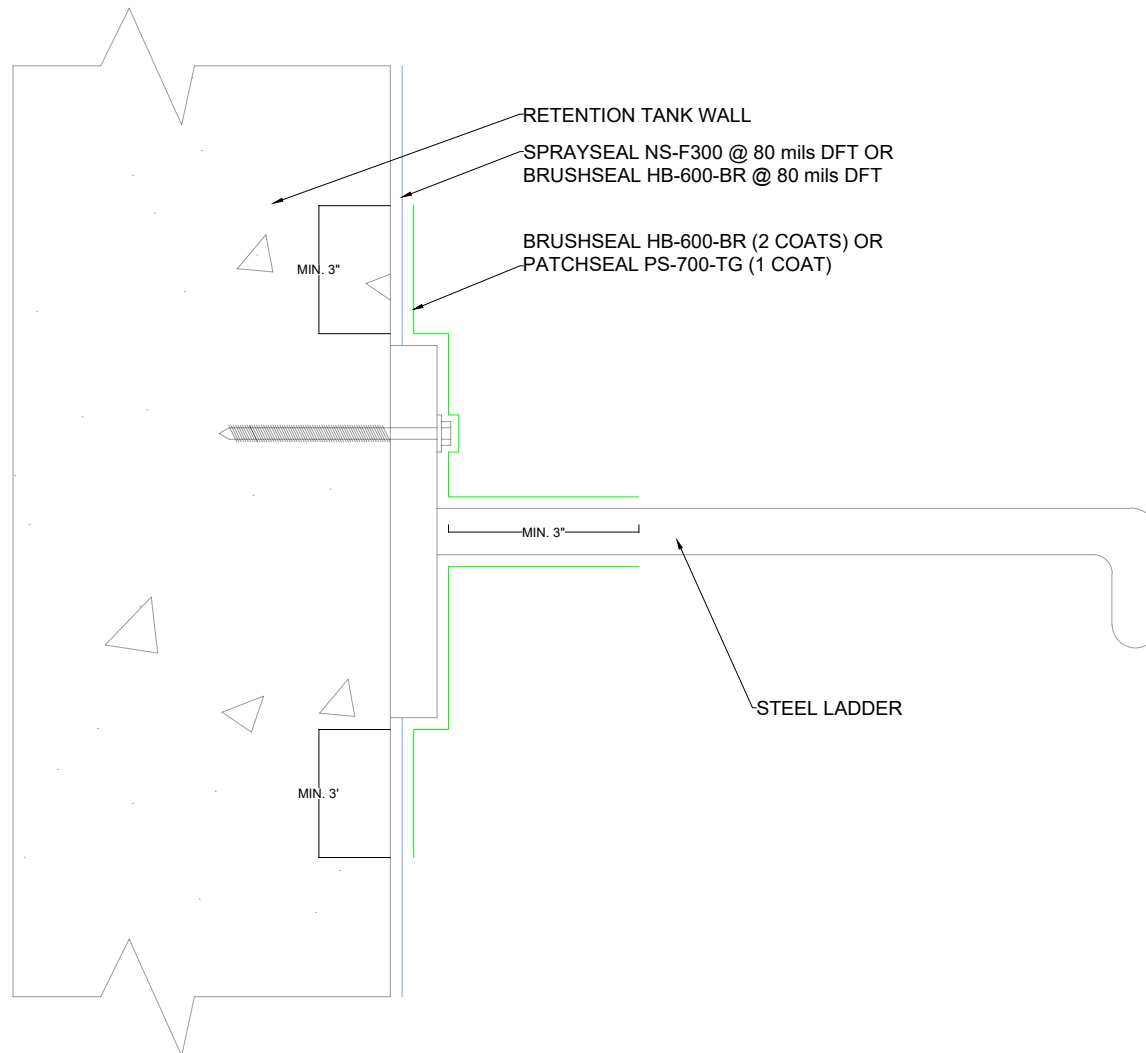
DO NOT SCALE DRAWINGS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN
SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS
ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION.

Date: FEBRUARY 4, 2020

Scale: N.T.S.

Drawing No.:

SS.PT.01



SPRAYSEAL COMMERCIAL DETAILS - STEEL LADDER DETAIL

DO NOT SCALE DRAWING NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION

Date: 2026/03/15

Scale: N.T.S

DRAWING NO:

NS.WC.BS.LH.49

SpraySeal™ NS-F300

Fluid-Applied, Elastomeric, Non-Permeable Membrane

TECHNICAL DATA SHEET F300062525NNA01

DESCRIPTION

SpraySeal™ NS-F300 is a polymer-modified, asphalt emulsion designed for commercial waterproofing, such as positive side waterproofing, storm water tanks, and more. SpraySeal NS-F300 is weather resistant, eco-friendly, safe to use, and can be applied onto green concrete. NS-F300 is a highly versatile elastomeric coating that is cold-applied using a spray-system to create a durable, seamless membrane. It can be used to cover a wide variety of surfaces. 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

- Can be applied on concrete walls
- Withstands temperature changes and surface shifts without becoming cracked or strained
- Superior resistance to hydrostatic head pressure
- Highly elastomeric
- Self-sealing characteristics if punctured
- Environmentally friendly and free of toxins and VOCs

INSTALLATION



SPRAY APPLIED

APPLICATION

- Positive Side Waterproofing
- Storm Water Tank Waterproofing
- Elevator Pit Waterproofing

HEALTH SAFETY AND ENVIRONMENT

SpraySeal™ NS-F300 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 winterized kit.
- Temperature and humidity conditions will affect drying time.

For further information refer to NaturaSeal installation guides.

STORAGE AND USE

- Mix each drum well 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) or below 5°C (41°F).
- Avoid storing or using the product in temperatures below 4.5°C (40.1°F) unless using a winterized kit.

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).



COMPONENTS

- NaturaFlow™ 7000
- Natura HDPro
- BrushSeal HB-600-BR
- PatchSeal PS-700-TG
- NS-200R Geotextile Fabric
- NS-SALT

COVERAGE

Dry Film Thickness (DFT)	SF/Gallon
40 Mils	26.07
60 Mils	17.38
80 Mils	13.03
100 Mils	10.43
120 Mils	8.68

SpraySeal™ NS-F300 is applied at 60 Mils DFT for positive side waterproofing and 80 Mils DFT for Storm Water Tank Waterproofing.

SpraySeal™ NS-F300 is firm to touch in one (1) minute @ 20°C (68°F) and is completely cured in 24-48 hrs. This curing time may vary depending on temperature and relative humidity (24-48 hrs). For approximate drum coverage, refer to NaturaSeal Coverage Literature.

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.

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SpraySeal™ NS-F300

Fluid-Applied, Elastomeric, Non-Permeable Membrane

TECHNICAL DATA SHEET F300062525NNA01

APPROVALS / CERTIFICATE

CE Marking, ISO 9001:2015, ISO 14001:2015, ISO 45001:2018
 CERTIFICATE OF PRODUCT CONFORMITY - DM-DCLD-RD-DP21-2001 (IC)

PRODUCT INFORMATION

Physical Properties	Typical Results
Specific Gravity	Approx. 1.0
Odour	None
VOC	Contains no solvents
Colour	Brown to Black
% Solids (wt.)	62 +/- 3%
pH	10-12

TECHNICAL INFORMATION

Performance (Cured Membrane)	ASTM Method	Typical Results
Thickness (mm)	D5147	1.5
Impact Resistance (lbs)	CSB 37-GP-56 @ 23°C (73.4°F)	Passed (168)
Water Tightness After Impact		Passed (no leakage)
Tensile Strength (psi)	D412	8.4 Mpa (1218 PSI)
Elongation (%)	D882	850%
Adhesion to Concrete Strength (psi)	C907	111
Puncture Resistance	D5602-06	Passed (no puncture)
Accelerated Weathering	D155, D412	Passed (no deterioration of film)
Hardness, Durometer Type OO		85-87
Surface Burning Characteristics	CAN/ULC-S102.2	Class A Passed
National Sanitation Foundation		Potable Water Approved (call for details)
Salt Fog Corrosion, Steel	D412	1,000 Hours Passing
Hydrostatic Head Pressure Resistance	D5385	Passed (no leakage) at 75 PSI (138 ft) of hydrostatic pressure
Low Temperature Flexibility	D5147-14	Passed (no cracking observed)
Dimensional Stability (Max %)	D1204 & D5147	Passed 2.31
Compound Stability (°C/°F)		Passed (123°C/ 253.4°F)
Water Vapour Permeance, ng/Pa.s.m2 (perms)	E96-16	5 (0.09) Procedure A, Desiccant 4 (0.07) Procedure B, Water
Biological resistance	E154, D412	Passed (> 90% original value)
Crack Bridging	CAN/CGSB 37.58-M86 & C1305	No Cracking Observed (-26°C/-14.8°F) No Cracking Observed (40°C/ 104°F)
Water Resistance	AATCC 127 & E2556	Pass, 55 cm of Water Head for 5 hours
Pull Adhesion (mPa)	D4541	0.49
Adhesion in Peel (After Water Immersion)	C836 (N/m)	670 N/m
Self Sealability	ASTM D1970	Pass

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.

1. Allow poured concrete to properly cure (28 days). Peel adhesion of Membrane to concrete is measured at a rate of 50 mm/min at 22°C (72°F).

2. Test conducted at 3.25 mm.

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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BrushSeal™ HB-600-BR

Modified Elastomeric Bitumen Emulsion

TECHNICAL DATA SHEET BSHB062525NNA01

DESCRIPTION

BrushSeal™ HB-600-BR is an elastomeric coating for roofs, decks, metal surfaces and more. BrushSeal™ HB-600-BR offers waterproofing, corrosion protection and weather resistance. BrushSeal is a cold-applied product that creates a durable, leak-proof membrane that expands and contracts as weather conditions change. This highly versatile product can be used for a variety of applications both indoors and outdoors, and is easily applied using a brush, roller or squeegee.

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 all waterproofing and corrosion protection purposes
- Elongates more than 850%, with 96% recovery
- Can withstand temperature changes and surface shifts without cracking
- The product self-heals if it is punctured
- Adheres to almost any material, including wood, metal, foam, concrete and tile
- Environmentally friendly, and free of toxins and VOCs

INSTALLATION



BRUSH APPLIED

APPLICATION

- Corrosion Protection
- Waterproofing
- Roofing
- Damp Proofing
- Mold Proofing

HEALTH SAFETY AND ENVIRONMENT

BrushSeal™ HB-600-BR 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 rain.
- Temperature and humidity conditions will affect drying time.

For further information refer to NaturaSeal installation guides.

COMPONENTS

- PatchSeal PS-700-TG
- NS-200R Geotextile Fabric

STORAGE AND USE

- Ensure all pail lids are sealed and air-tight prior to use.
- Properly mix each drum or pail prior to use.
- Do not store in direct sunlight of temperatures $\geq 32^{\circ}\text{C}$.
- Avoid storing or using the product in temperatures $\leq 5^{\circ}\text{C}$.



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
40 Mils	22

BrushSeal™ HB-600-BR is completely cured in 12-48 hrs. This curing time may vary depending on temperature and relative humidity.

QUALITY MANAGEMENT

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- 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.

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.

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BrushSeal™ HB-600-BR

Modified Elestomeric Bitumen Emulsion

TECHNICAL DATA SHEET BSHB062525NNA01

APPROVALS / CERTIFICATE

CE Marking, ISO 9001:2015, ISO 14001:2015, ISO 45001:2018
CERTIFICATE OF PRODUCT CONFORMITY - DM-DCLD-RD-DP21-2001 (IC)

PRODUCT INFORMATION

Physical Properties	Typical Results
Specific Gravity (liquid)	Approx. 1.0
Odour	None
VOC	Contains no solvents
Colour	Brown to black
% Solids (wt.)	62%
Viscosity, Brookfield, sp. #55, 20 rpm	8,000-9,000
pH	10-12

TECHNICAL INFORMATION

Performance (Cured Membrane)	ASTM Method	Typical Results
Colour		Black
Specific Gravity (g/cm³)		Approx. 1.0
Chemical Resistance	D1308 - 20	No significant changes were observed. See chemical resistance chart for further information.
Water Tightness After Impact		Passed (no leakage)
Water Tightness	CGSB 37-GP-56	Zero leakage
Biological Resistance	E154, 0412	Passed (>90% original value)
Impact Resistance (23°C/73.4°F, lbs)	CGSB 37-GP-500	Passed (168)
Tensile Strength (psi)	D412	90
Elongation (%)	D412-16	864
Accelerated Weathering	G155, 0 412	Passed (no deterioration of film)
Tensile Strength		Passed (>90% original value)
Hardness, durometer type 00		85-87
Adhesion to concrete	C907	765 kPa
Hardness	D2246	50 Type A
Puncture Resistance	CGSB 37-GP-56	No perforations
Water Vapour Permeance* (Method-B- Water Method) (perms)	E96, E96M-24a	0.062
Recovery (%)	D412-16	96
Low Temperature Flexibility @ -30°C / -22°F	D5147/D5147M-18	No cracks were observed
Nail Sealability	D1970, D1970M-21	Pass
Crack Bridging Ability @ 3.2mm	C1305/C1305M-16(2023) C836/C836M-18(2022)	After 10 cycles of testing in 3.2 mm up-and-down movement, No sign of cracks, loss of adhesion or any other type of failure was observed.

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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.

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PatchSeal™ PS-700-TG

Trowel Applied, Elastomeric Coating

TECHNICAL DATA SHEET PS700062525NNA01

DESCRIPTION

PatchSeal™ PS-700-TG is an elastomeric asphalt emulsion designed for application by trowel or caulking tube. Superior qualities of strength, durability, elasticity and adhesion.

PatchSeal™ PS-700-TG is a modified asphalt emulsion designed for use in a variety of applications. It is easily applied using a trowel or caulking tube, and it can be used both indoors and outdoors.

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

PatchSeal cures within one or two days, depending on the temperature, conditions and relative humidity.

PatchSeal has a thicker consistency than the SpraySeal and BrushSeal products. It is perfect for patching and preparing surfaces.

It can be used to fill gaps of 1/8 inch or larger prior to using other NaturaSeal products.

PatchSeal is environmentally friendly, safe and easy to use.

INSTALLATION



TROWEL APPLIED

APPLICATION

Corrosion Protection

Waterproofing

Roofing

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
40 Mils	22

PatchSeal™ PS-700-TG is completely cured in 48 hrs. This curing time may vary depending on temperature and relative humidity.

HEALTH SAFETY AND ENVIRONMENT

PatchSeal™ PS-700-TG 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.
- Temperature and humidity conditions will affect drying time.

For further information refer to NaturaSeal installation guides.

COMPONENTS

- BrushSeal HB-600-BR
- NS-200R Geotextile Fabric

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.

QUALITY MANAGEMENT

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- 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

- PatchSeal™ PS-700-TG cures by evaporation, so it should not be used in temperatures below 4.5°C (40.1°F).
- Apply to surfaces that are free of clean and dry.
- The product should not be used in high humidity, or when there is a high probability of rain.

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PatchSeal™ PS-700-TG

Trowel Applied, Elastomeric Coating

TECHNICAL DATA SHEET PS700062525NNA01

APPROVALS / CERTIFICATE

CE Marking, ISO 9001:2015, ISO 14001:2015, ISO 45001:2018
 CERTIFICATE OF PRODUCT CONFORMITY - DM-DCLD-RD-DP21-2001 (IC)

PRODUCT INFORMATION

Property	Typical Results
Specific Gravity	Approx. 1.0
Odour	None
VOC	Contains no solvents
Colour	Brown to Black
% solids (wt.)	63-68%
Viscosity, Brookfield, sp. #5, 20 rpm	20,000-30,000
pH	10-12

TECHNICAL INFORMATION

Performance (Cured Membrane)	Test Method	Typical Results
Chemical resistance		Resistant to most inorganic solutions. Not recommended for gasoline or other petroleum products. Consult chemical resistance chart for further information.
Biological resistance	ASTM E154, ASTM O412	Passed (90% original value)
Water tightness after impact	CGSB 37-GP-56	Passed (no leakage)
Water tightness		Zero leakage
Tensile strength	ATSM O412, psi	50
Elongation (%)		300
Accelerated weathering	ASTM G 155, O 412	Passed (no deterioration of film)
Tensile strength		Passed (>90% Original Value)
Hardness	Ourometer type OO, ASTM D2246	85-90, 50 Type A
Adhesion to concrete	ASTM C907	765 kPa
Puncture resistance	CGSB 37-GP-56	No perforations

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NS-200R™ Geotextile

Needle-Punched Nonwoven Geotextile

TECHNICAL DATA SHEET NS200R062525NNA01

DESCRIPTION

NS-200R™ is a needle-punched nonwoven geotextile made of 100% polypropylene staple fibers. NS-200R™ resists ultraviolet deterioration, rotting, biological degradation, naturally encountered bases and acids. Polypropylene is stable within a pH range of 2 to 13.

NaturaSeal® - PMAE TECHNOLOGY

NaturaSeal unique green PMAE technology created from readily available waste in the oil and forestry industries utilizing raw materials that are derived from the process of recycling waste streams within the asphalt, wood chip, pulp and paper.

BENEFITS

- Manufactured with pure and stable fibers
- Meets AASHTO M288 Class 3 for elongation > 50%
- Excellent physical and hydraulic properties
- Resistant to ultraviolet deterioration
- Withstand rotting and biological Degradation
- Resistant to naturally encountered bases and acids
- Stable within a pH range of 2 to 13

INSTALLATION



ROLL

APPLICATION

- Waterproofing
- Air Barrier
- Roofing
- Gas Protection
- Water Features
- Planted Areas

HEALTH SAFETY AND ENVIRONMENT

The materials does not contain any substance likely to be detrimental to health or to the environmet and complies with generally accepted health and safety requirements. For further information please refer to relevant Material Safety Data Sheet in force.

INSTALLATION GUIDELINES

- Do not apply if rain is imminent within 24 hrs.
- Do not apply to wet, frozen or frosted surfaces.
- Do not expose to UV for more than 30 days.
- For application below 0°C (32°F) please refer to NaturaSeal guidelines for winterized kits.

For further information please refer to the relevant Work Method Statement (WMS).

STORAGE AND USE

The material must be stored in shaded spaces, protected from exposure to direct sunlight, extreme heat and moisture. Material must be kept away from heat and flammable materials. Avoid stacking heavier pallets of materials on top of this product.



SUSTAINABILITY

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



COMPONENTS

NS-200R™ is used as an ancillary in combination with all NaturaSeal Cold-Applied PMAE™ series of products.

COVERAGE

Size	Packaging
11.15 m ²	180 rolls / pallet
16.72 m ²	120 rolls / pallet
33.45 m ²	60 rolls / pallet
66.89 m ²	30 rolls / pallet
125.42 m ²	12 rolls / pallet
175.59 m ²	12 rolls / pallet
209.03 m ²	12 rolls / pallet

QUALITY MANAGEMENT

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

SHELF LIFE

Material shall be stored in a dry and properly ventilated space, protected from the elements or any harmful substances. Material shall be adequately protected from environmental impacts to the properties or the performance of the membrane.

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NS-200R™ Geotextile

Needle-Punched Nonwoven Geotextile

TECHNICAL DATA SHEET NS200R062525NNA01

COMPLIANCE

AASHTO M288 OF PRODUCT CONFORMITY - DM-DCLD-RD-DP21-2001 (IC)

PRODUCT INFORMATION

Physical Properties	Typical Results
Reinforcement	Needle-punched nonwoven geotextile
Thickness	0.5 mm
Colour	White, Black

TECHNICAL INFORMATION

Property	ASTM Method	Results
Tensile Strength (N)	D4632	445
Grab Elongation (%)	D4632	50
Tear Resistance (N)	D4533	200
CBR Puncture ¹ (N)	D6241	1320
Permittivity (sec ⁻¹)	D4491	2.0
Water Flow Rate (l/min/m ²)	D4491	6095
Apparent Opening Size (mm)	D4751	0.300
UV Stability (% @ 500h)	D4355	70

1. Burst strength (Mullen ASTM D3786) and Puncture (ASTM D4833) are both replaced by CBR Puncture (ASTM D6241)

*All values are MARV except where specified.

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.

1. Allow poured concrete to properly cure (28 days). Peel adhesion of Membrane to concrete is measured at a rate of 50 mm/min at 22°C (71.6°F).

2. Test conducted at 3.25 mm.

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



PIONEERING THE FUTURE TODAY

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**Section 071416.06 – SpraySeal (NS F-300) Waterproofing
Storm Water Tank Applications**

PART 1 — GENERAL

1.1 GENERAL REQUIREMENTS

- .1 General Conditions, Supplementary Conditions, Instructions to Bidders and Division One General Requirements shall be read in conjunction with and govern this section.
- .2 This Specification shall be read as a whole by all parties concerned. Each Section may contain more or less than the complete Work of any trade. The Contractor is solely responsible to make clear to the Subcontractors the extent of their Work.

1.2 DESCRIPTION

- .1 Supply labour, materials and equipment to complete the Work as shown on the Drawings and as specified herein to provide a continuous waterproof layer installed on the blindside of concrete foundation walls, including but not limited to:
 - .1 Detailing of piping, conduit, duct and similar penetrations.

1.3 RELATED SECTIONS

- | | | |
|----|------------------|--------------------|
| .1 | Site Work | Section [02 XX XX] |
| .2 | Concrete | Section [03 XX XX] |
| .3 | Masonry | Section [04 XX XX] |
| .4 | Structural Steel | Section [05 XX XX] |
| .5 | Rough Carpentry | Section [06 XX XX] |
| .6 | Insulation | Section [07 XX XX] |
| .7 | Flashing | Section [07 XX XX] |
| .8 | Sealants | Section [07 XX XX] |
| .9 | Mechanical | Section [15 XX XX] |

1.4 REFERENCE STANDARDS

Liquid applied waterproofing shall meet or exceed the following standards and specifications:

- .1 ASTM D5385/D5385M-14, "Standard Test Method for Hydrostatic Pressure Resistance of Waterproofing Membranes".
- .2 CAN/CGSB 37.58-M86 Section 7.2.3, and CSA A123.23-15 Referencing ASTM D5147-14 Section 11 & ASTM D1204, "Dimension Stability"
- .3 CAN/CGSB 37.58-M86 Section 7.2.3, "Water Absorption".
- .4 CAN/CGSB 37.58-M86 and ASTM C836 Section 7.2.5, "Adhesion in Peel".
- .5 CAN/CGSB 37.58-M86 and ASTM C1305 Section 7.2.5, "Crack Bridging".
- .6 CAN/CGSB 37.58-M86 Section 7.2.6 and CSA A123.23-15 referencing ASTM D5147-14 Section 12 "Low Temperature Flexibility, UV Exposure"
- .7 CAN/CGSB 37.58-M86 and ASTM D412 Section 7.2.7, "Recovery Test"
- .8 CAN/CGSB 37.58-M86 Section 7.2.8, "Water Tightness"
- .9 ASTM E96-16, Desiccant and Water Method, "Water Vapour Transmission"
- .10 CSA A123.23-15 Referencing ASTM D5147-14 Section 6, "Thickness"
- .11 CSA A123.23-15 Referencing ASTM D5147-14 Section 7, "Elongation at Peak & Ultimate Elongation".
- .12 CSA A123.23-15 Referencing ASTM D5147-14 Section 16, "Compound Stability"
- .13 CSA A123.23-15 Referencing ASTM D5602-06-14, "Resistance to Puncture"
- .14 ASTM D903-98(2017) "Standard Test Method for Peel or Stripping Strength of Adhesive Bonds"
- .15 ASTM D1434-82(2015) "Standard Test Method for Determining Gas Permeability Characteristics of Plastic Film and Sheathing"
- .16 ASTM G20-10-(2015) Standard Test Method for Chemical Resistance of Pipeline Coatings"

1.5 SUBMITTALS

- .1 Prior to commencing the Work submit manufacturer's complete set of standard details for waterproofing systems.

- .2 Submit documentation certifying that the primary waterproofing material complies with CSA A123.23 and CGSB 37.58.

1.6 REFERENCE DRAWINGS

The following drawings from NaturaSeal Standard Drawings Library are applicable to SpraySeal for Vertical Walls applications:

- .1 SS.ID.02 – Interior Upturn Detail
- .2 SS.R.02 – Pipe Penetration
- .3 SS.PT.01 – SpraySeal Commercial Details Storm Water Tank

1.7 QUALITY ASSURANCE

- .1 Perform Work in accordance with the printed requirements of the membrane manufacturer and this specification. Advise designer of any discrepancies prior to commencement of the Work.
- .2 The Spray-applied membrane may only be applied by a qualified licensed NaturaSeal Distribution Inc. applicator.
- .3 A pre-installation conference, to include at least the contractor, applicator and architect/engineer should be held one [1] week prior to application to ensure proper substrate and conditions.
- .4 Maintain one copy of manufacturers literature on site throughout the execution of the Work.
- .5 At the beginning of the Work and at all times during the execution of the Work, allow access to site by the waterproofing membrane manufacturer's representative.
- .6 Materials used in this Section, including, primers, mastics and membranes, asphaltic protection boards, composite drainage boards and expansion joint membranes shall be fully compatible and shall be sourced and or produced by one manufacturer.

1.8 COORDINATION

- .1 Ensure continuity of the waterproofing membrane throughout the scope of this section.
- .2 Works shall be so scheduled as to provide a watertight seal at the end of each working day on the areas worked upon during the day.

1.9 DELIVERY, STORAGE AND HANDLING

- .1 Deliver materials to site in original unbroken packages bearing manufacturer's label showing; brand, weight, volume and batch number. Store materials at site in strict compliance with manufacturer's instructions.
- .2 Cold applied elastomeric membrane (part A + B) should be stored in a tractor trailer on site.
- .3 In temperatures below 4.5 degrees Celsius, store the elastomeric membrane (part A + B) in a heated and insulated trailer in conjunction with winter kit provided and approved by NaturaSeal Distribution Inc.
- .4 Store roll materials in original packaging protected from weather.

1.10 JOB CONDITIONS

.1 Environmental Requirements

- .1 No installation work shall be performed during rainy or inclement weather and on frost or wet covered surfaces without prior approval by NaturaSeal. SpraySeal may be applied in light rain and over frost covered surfaces if pre-approved by NaturaSeal Distribution Inc. Solid ice should be removed prior to application. Absorbent substrates should not be fully saturated.

- .2 Ambient temperature shall be greater than -15 degrees C.

.2 Protection

- .1 Protect and mask all adjacent areas from overspray.
- .2 Minimum clearance of 600 mm is required for the application of product. For areas with less than 600 mm clearance, the product may be applied by hand using NaturaSeal PatchSeal & BrushSeal.
- .3 Provide adequate protection of materials and work of this section from damage by weather backfilling operations and other causes.
- .4 Protect work of other trades from damage resulting from work of this section. Make good such damage at own expense to satisfaction of the consultant.

1.11 ALTERNATES

- .1 Submit request for alternates in accordance with Section 01 25 00 – Substitution Procedures.

- .2 Submit requests for alternates a minimum of ten (10) working days prior to bid date
- .3 Alternate submission to include:
 - .1 Evidence that alternate materials meet or exceed performance characteristics of Product requirements as well as documentation from an approved independent testing laboratory certifying the performance of the waterproofing membrane system including drain boards and transition sheets, exceed the requirements of the National Building Code.
 - .2 Ten (10) references clearly indicating the membrane manufacturer has successfully completed projects of similar scope and nature for a minimum of ten (10) years
 - .3 Manufacturer's complete set of details for waterproofing membrane systems showing a continuous plane of water tightness throughout the building envelope.
- .4 Acceptable alternates will be confirmed by addendum. Substitute materials not approved in writing prior to bid date shall not be permitted for use on this project.

1.12 PRODUCT WARRANTY

- .1 NaturaSeal Distribution Inc. hereby warrants that the waterproofing membrane will remain in a watertight condition and will not leak as a result of faulty materials for a period of [five] [ten] years. Scope of warranty shall include material required to return the membrane to a watertight condition.

1.13 INSTALLATION WARRANTY

- .1 NaturaSeal Distribution Inc. will Warrant the work of this Section to remain free from leaks and from defects in materials and workmanship in accordance with the Contract Requirements, for a period of [five] [ten] years, if the Installation Quality Control and Warranty Program is followed. Contact NaturaSeal representative for full program details and how to enroll.
- .2 Installation Quality Control and Warranty Program includes but is not limited to:
 - .1 Pre-Installation Conference: A pre-installation conference shall be held prior to commencement of field installation to establish procedures to maintain required working conditions and to coordinate this work with related and adjacent work. Verify that final waterproofing details comply with waterproofing manufacturer's current installation requirements and recommendations. Any site specific details that are required will be discussed at this meeting. Pre-con meeting attendees should include representatives for the owner, architect, inspection firm, general contractor, waterproofing contractor, concrete contractor, excavating/backfill contractor, and mechanical and electrical contractors if work penetrates the waterproofing.

- .2 Independent Inspection: Owner shall make all arrangements and payments for an independent inspection service to monitor waterproofing material installation compliance with the project contract documents and manufacturer's published literature and site specific details. Independent Inspection Firm shall be an approved company participating with the waterproofing manufacturer's Certified Inspection Program. Inspection service shall produce reports and digital photographs documenting each inspection. Reports shall be made available in a timely manner to the Contractor, waterproofing installer, waterproofing material manufacturer, and Architect. Inspections should include substrate examination, beginning of waterproofing installation, periodic intervals, and final inspection prior to concrete or backfill placement against the waterproofing.
- .3 Water Contamination: Waterproofing contractor shall report to NaturaSeal any known contaminants in the soil or groundwater for the site.
- .3 NaturaSeal Distribution Inc. will promptly make good defects within the warranty period without cost to the Owner by methods chosen by NaturaSeal.
- .4 Manufacturer warranty shall be independent from any other warranties made by the Contractor under requirements of the Contract Documents and may run concurrent with the other warranties.

PART 2 — PRODUCTS

2.1 MANUFACTURER

- .1 Waterproofing membrane components and accessories must be obtained as a single-source from the membrane manufacturer / distributor to ensure total system compatibility and integrity.
 - .1 Acceptable Manufacturer: NaturaSeal Distribution Inc.
960 Edgeley Boulevard, Unit 4
Vaughan, Ontario, L4K 4V4
1-855-795-SEAL
www.naturaseal.com

2.2 MATERIALS (Basis of Design)

- .1 Primary waterproofing membrane for temperatures above 4.5 degrees C shall be SpraySeal NS F-300 manufactured by NaturaSeal; a two component elastomeric asphalt emulsion, spray applied, compatibility with substrates and transition membranes. Membrane shall have the following physical properties:
 - .1 Elongation: 486%
 - .2 Maximum VOC: 0 g/L
 - .3 Water vapor permeance: 0.02 perms to ASTM E96-16

- .4 Chemical resistance: Alkalis, calcium chloride, mild acid and salt solutions
- .2 Brush or squeegee applied liquid waterproof membrane for detailing shall be BrushSeal manufactured by NaturaSeal.
- .3 Trowel or caulking tube applied liquid waterproofing membrane for detailing shall be PatchSeal manufactured by NaturaSeal.
- .4 Fabric reinforcement shall be NaturaSeal 200R needle-punched nonwoven geotextile made of 100% polypropylene staple fibers capable of allowing the emulsion to bleed through adequately to provide a monolithic reinforced membrane system.

2.3 EQUIPMENT

- .1 The application shall be via a dual component spray gun and HVLP 2000 Spray Machine as approved by NaturaSeal Distribution Inc.
- .2 In cold weather applications (below 4.5 degrees Celsius but not less than -10 degrees Celsius), application shall be via an insulated hose lined with heat tracing cables approved by NaturaSeal Distribution Inc. Drums will be stored in a heated and insulated trailer as specified in Section 1.9 DELIVERY, STORAGE AND HANDLING.

PART 3 — EXECUTION

3.1 INSPECTION

Prior to commencement of work, a thorough inspection of the substrate should be carried out to determine or confirm the following:

- .1 Particularly in the case of new construction, determine whether curing or parting compounds or hardeners were used and, if so, the specific compounds used. Non-oil based compounds are generally compatible with and are preferred. However, oil based compounds do not present a problem if the surface is properly prepared. Refer questions regarding compatibility to NaturaSeal Distribution Inc. – Also refer to the chemical resistance chart (CRC) located on NaturaSeal website.
- .2 The presence of large irregularities, such as cracks, voids, bug holes, or large gaps.
- .3 The soundness of the existing top coat, if the wall has been coated, and the compatibility of the coating and SpraySeal Membrane should be determined by spraying a small test area.

3.2 SUBSTRATE PREPARATION

SpraySeal membrane must be installed on a clean and structurally sound surface, free of sharp edges, loose or foreign material, dirt, oil, grease or other materials or debris that may damage the membrane.

Prior to the installation of any waterproofing the following must be met:

- .1 Concrete shall either be cured a minimum of 7 days, or deemed dry and acceptable for the waterproofing by the Consultant and waterproofing membrane manufacturer.
- .2 Power wash or otherwise clean the wall, as necessary, including high pressure water blast to remove residual curing or parting compounds, hardeners, laitance or loose and flaking paint. High-pressure water blast will generally eliminate any problems associated with such compounds.
- .3 Allow wall to dry until free of surface moisture and, if possible, free from retained moisture. Some blistering may occur if moisture is entrapped in the wall at the time of application or, particularly in the case of new construction due to off-gas of the concrete when sealed. These blisters will disappear within a few days, without detriment to the SpraySeal Membrane as the moisture or gas is absorbed into the substrate.
- .4 Fill any significant irregularities in the immediate substrate, such as cracks, voids or bug holes, or large gaps in the case of precast construction, with suitable filler to form a smooth surface.
- .5 Once the existing wall has been determined to be a sound substrate for application, repair and/or replace any details, flashing, or penetrations found to be suspect.
- .6 Mask all areas as needed for protection from over-spray. Mask terminations to a straight line.
- .7 Check wind conditions prior to application and compensate for over-spray.

3.3 DETAIL WORK

- .1 All shrinkage cracks more than 1.5 mm shall be routed 6 mm wide by 12 mm deep, clean out routed crack, install bond breaker in bottom of crack and apply PatchSeal sealant and tool into the crack. Apply a 150 mm wide detail strip of BrushSeal, centered over the crack. Install Geotextile fabric and roll it over the detail strip until the fabric is saturated.
- .2 A 1/2" (12 mm) cant of PatchSeal (PS-700-TG) shall be installed at all projections and penetrations. Apply a 30 mil (0.8 mm) detail coat of BrushSeal (HB-600-BR)

extending 50mm onto the penetration and 200mm onto the surrounding substrate. Apply Geotextile (200R) and roll it over until it's fully saturated.

3.4 MEMBRANE APPLICATION

- .1 Geotextile (200R) impregnated with BrushSeal (HB 600-BR) shall be installed at upturns and downturns:
 - .1 100 mm up the foundation wall;
 - .2 100 mm on the horizontal floor surface of storm water tank;
 - .3 Lap the adjacent applications of the Geotextile a minimum of 300 mm.
- .2 SpraySeal shall be supplied and installed by an approved Applicator. The spray gun and associated delivery equipment shall be set up such that the separate emulsion and catalyst are combined in two even fan patterns with no precipitation of either component. It shall produce a non-liquid coating exhibiting a finely textured surface with the characteristic of uniformly releasing the water carrier contained within the emulsion.
- .3 A flood coat of SpraySeal emulsion part A shall be applied to all concrete surfaces which are to be waterproofed.
- .4 For horizontal floor area (in replacement of flood coat) supply and install BrushSeal HB-600-BR at 80 Mils (2mm) (dry).
- .5 For vertical wall & ceiling area, supply and install SpraySeal (NS F-300 A+B) shall be spray applied in liquid form and air cured to form a seamless film. The application shall be via a dual component spray gun and delivery equipment as approved by NaturaSeal Industries. The applied membrane should measure 110 mils (2.75 mm) (wet) and 80 mils (2 mm) (dry).
- .6 Spray an additional 20 mil coat of SpraySeal to all vertical inside and outside corners extending 75 mm on either side of the corner.
- .7 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 10,000 ft² (930 m²) per day with one crew or 20,000 ft² (1850 m²) with 2 crews using one machine
- .8 Attention must be taken during application process to ensure a consistent and homogeneous membrane. Use a wet film thickness gauge to ensure proper minimum thickness achieved.
- .9 Check Membrane for correct thickness in a grid pattern every 10m².

.10 Complete a thorough inspection of the sprayed area prior to installing a protection system.

.11 The nominal standard curing time is 24 hrs at 20°C.

3.5 MEMBRANE PROTECTION

.1 Ensure waterproofing is undamaged and surface is clean.

.2 The work shall be barricaded. The membrane Applicators shall attend and control their work until wear protection overlays are installed complete.

3.6 QUALITY ASSURANCE

.1 Inspection Method A: Membrane may be checked for coverage with a lightly oiled, needle nose depth gauge, or by taking one (1) cut-out of one (9) square inches every one thousand (1,000) square feet (93 m²). Record the minimum reading. Mark the test area. Test areas are to be patched over with SpraySeal Membrane to a 120-mil (3 mm) minimum dry thickness, extending a minimum of 25 mm beyond the test perimeter.

.2 Inspection Method B: Samples to be inspected may be cut from the membrane to a minimum area of two (2) square inches per five hundred (500) square feet (46 m²). Voids left by sampling are to be patched with fiberglass and must overlap the void by a minimum of 50 mm. Spray or trowel-apply SpraySeal Membrane to an 80-mil (2mm) minimum dry thickness, extending at 75 mm beyond scrim patch.

If the membrane suffers damage it shall be repaired by repeating the application process and overlapping the damaged area that has been trimmed and cleaned.

The Contractor shall provide works access, and site safety practices to avoid endangering the waterproofing Applicator, the passing public, and the building tenants.

Note: Due to the nature of concrete as a substrate it is normal for some blistering to occur. This is caused by either the concrete's tendency to off-gas when sealed, or water that is temporarily trapped between the concrete and the membrane. With time blisters will absorb into the concrete without detriment to the membrane.

A small number of blister heads should be sampled and checked for proper membrane thickness. If the samples have the required membrane thickness (80-mil nominal/60-mil minimum), then the remaining blisters should not be punctured or cut. If the samples have less than the minimum 60-mils, then the area can either be re-sprayed to obtain the proper thickness, or the blisters can be cut out and the area re-sprayed or patched with PatchSeal to a minimum

thickness of 80 mils (2mm)(dry thickness) over the cut-out area extending a minimum of 75 mm beyond the cut.

February 14th, 2018

Mr. Leon Goldstein,
NaturaSeal Distribution Inc.
4090 Ridgeway Drive, Unit 1
Mississauga, Ontario
L5L 5X5

Dear Mr. Goldstein,

**Re: NaturaSeal SpraySeal NS F-300
Storm Water Tank Waterproofing Application
Review of Suitability**

MH was retained by NaturaSeal Performance Coatings to review and comment on the use of SpraySeal NS F-300 as a waterproofing system in a concrete storm water tank.

SpraySeal NS F-300 is an elastomeric coating comprised of water suspension of co-polymer modified emulsified asphalt and inert fillers. It is a highly versatile coating that is cold-applied using a spray system.

SpraySeal NS F-300 is intended to be used in concrete storm water tank waterproofing applications. The most critical aspects for this waterproofing application include:

- Hydrostatic pressure
- Water Tightness
- Low temperature flexibility
- Adhesion in water immersion
- Crack bridging

NaturaSeal has retained a third party testing firm “Exova” to conduct the required evaluation testing for the cold applied waterproofing system “SpraySeal NS F-300” in accordance to the applicable testing standards: CAN/CGSB-37.58-M86, ASTM D5385/D5385M-14 and CSA A123.23-15. Tests results are summarized below:

Criteria	Relevant Test Standard	Comment
Hydrostatic pressure	ASTM D5385/D5385M-14	80 mils thick cold applied waterproofing membrane sustained a maximum pressure of 65 psi without leakage, which is equal to 138 ft (41 m) of water head.
Water Tightness	CAN/CGSB-37.58-M86	No leakage occurred. (Pass)

Criteria	Relevant Test Standard	Comment
Adhesion in Peel after water immersion	CAN/CGSB 37.58-M86 section 7.2.4. Referencing ASTM C836-10 section 5.9, and ASTM C794-10	Cohesive Failure (Pass)
Low Temperature Flexibility	CAN/CGSB-37.58-M86 section 7.2.6	No cracking was observed (Pass)
Crack bridging	CAN/CGSB-37.58-M86 section 7.2.5. Referencing ASTM C836 Section 5.7 and ASTM C1305	No cracking was observed (Pass)

Summary

Based on the above and upon review of the submitted test results by Exova, our professional opinion is that SpraySeal cold applied membrane will provide excellent water penetration control in storm water tank waterproofing applications. We feel that SpraySeal is a direct equivalent to replace other typical hot applied rubberized asphalt waterproofing systems.

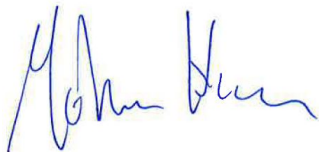
Requirements

The above assessment is based on the assumption that SpraySeal membrane is installed in a continuous manner and in accordance with the manufacturer specifications. SpraySeal membrane continuity at adjacent elements must be coordinated by the designers.

Closing

We trust this letter is adequate for your current needs.

Yours Truly,
Morrison Hershfield Limited



Mohamed Hussein, B.A.SC., EIT
Building Science Consultant
Building Specialty Services



Steve Murray, P.Eng., PMP.
Director, Building Science
Building Specialty Services

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Encl. Exova Evaluation Reports Nos.: 17-06-P0064-A, 17-06-P0064-C, 17-06-P0153