

SpraySeal™ F300 BGE

Pre & Post-Applied Fully Bonded PMAE Waterproofing System

TECHNICAL DATA SHEET F300BGE0825NBCM04
SUPERSEDES F300BGE0125NBCM03

DESCRIPTION

SpraySeal™ F300 BGE is a pre-applied, fully bonded, waterproofing system comprised of RollnSeal™ B700 HD heavy duty, composite (HSPE) waterproofing sheet membrane pre-laminated to high strength Polypropylene (PP) geotextile and SpraySeal F300 BGP a proprietary Polymerized Modified Asphalt Emulsion (PMAE) technology. The elastomeric waterproofing coating is a post blended and instant-setting fluid-applied membrane formulated from organic compounds. The assembly will form a unique pre-applied, integrally bonded, monolithic (seamless), self sealing and non-permeable waterproofing system designed to have tenacious adhesion, reliability, longevity, durability with a DUO LOCK MECHANISM™.

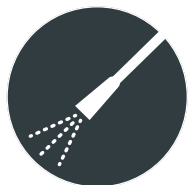
NaturaSeal® - PMAE TECHNOLOGY

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

BENEFITS

- Free of volatile organic compound
- Eco-friendly green engineering solution
- Solvent free and odorless
- Cold-applied, Non flammable and non toxic
- Self-sealing characteristics if punctured
- Superior elongation and elastic recovery
- Easy to install, Seamless monolithic, no vulnerable joints
- Fully bonded to cured and green concrete
- Chemical, UV and weathering resistant material
- No root barrier requirement
- Resistance to high hydrostatic pressure and Lateral water migration
- Dual bond mechanism to structural poured concrete.

INSTALLATION



SPRAY APPLIED

APPLICATION

- Pre-applied waterproofing
- Blindside Waterproofing
- Tanking / Bathtub Waterproofing
- Post-applied waterproofing

HEALTH SAFETY AND ENVIRONMENT

SpraySeal™ F300 BGE 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.
- Do not apply when temperatures are below 5 °C.
- Temperature and humidity conditions will affect drying time.

For further information refer to NaturaSeal installation guides.

STORAGE AND USE

- Ensure all drum and pail lids 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 $\geq 32^{\circ}\text{C}$.
- Avoid storing or using the product in temperatures $\leq 5^{\circ}\text{C}$.

SYSTEM COMPONENTS

- Membrane
 - SpraySeal F300 BGP
- Ancillaries
 - RollnSeal B700 HD
 - BrushSeal M600 BR
 - PatchSeal M600 TG
 - GeotexSeal B700 RF
 - PMAE B700 Catalyst

COVERAGE

Dry Film Thickness (DFT)	Wet Film Thickness (WFT)	m ² / L
1.5 mm	2.20 mm	0.45

Dry Film Thickness is measured for the fluid-applied membrane.

The membrane is fully cured in (24 to 48) hours depending on thickness, temperature and relative humidity.

For equipment, application and coverage rate details, please refer to NaturaSeal installation guides.

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.

SHELF LIFE

Material will have a 24-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).



NATURASEAL BUILDING & CONSTRUCTION MATERIALS LLC

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APPROVALS / CERTIFICATE

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

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

TECHNICAL INFORMATION

Property	Standard	SpraySeal™ F300 BGE
Total thickness	ASTM D5147	2.5 mm
Tensile strength	ASTM D5147	15 kN/m
Elongation	ASTM D5147	60 %
Compound elongation	ASTM D5147 ¹	>850 %
Water vapor permeance	ASTM E96 ² , method B	0.005 perms / 0.28 ng/Pa.s.m ²
Water absorption	ASTM D570	< 0.08 %
Puncture resistance	ASTM E154	1600 N
Peel adhesion to concrete	ASTM D903 ³	≥ 3250 N/m
Resistance to hydrostatic head	ASTM D5385 ⁴	≥ 110 m
Lateral water migration	ASTM D5385 ⁵	≥ 110 m
Crack cycling / Crack bridging	ASTM C836 ⁶	Pass
Low temperature flexibility	ASTM D5147	- 25 °C
Softening point	ASTM D36	> 120 °C
Resistance to impact	ASTM D2794	1000 mm
Chemical resistance	ASTM D543	Pass
Flow and heat resistance	EN 1110 ⁷	Resistant
Volatile Organic Compound (VOC)	US EPA-24	< 1 g/L

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. Elongation of polymerized modified asphalt compound
2. Permeance to water vapour transmission (HSPE side)
3. 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
4. Water temperature 22 °C, duration of 1 hour
5. Water temperature 22 °C, duration of 1 hour
6. Test conducted at 3.25 mm
7. Test temperature 70°C, Test duration 72Hours

We warranty 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.

PIONEERING THE FUTURE TODAY

AFFILIATES



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