

QUICKSEAL

EXPANDO FB 1

1. DESCRIPTION

QuickSeal Expando FB 1 is a specially formulated expanding polymer designed to close and secure suitably prepared concrete substrates prior to the application of VIP elastomeric membranes. **QuickSeal Expando FB 1** penetrates into bug holes and honey comb defects from form work to close and secure the surface reducing the incidence of pin holing of the elastomeric membrane.

QuickSeal Expando FB 1 is applied using standard heated plural component spray equipment and when applied expands closing all holes and imperfections in the concrete substrate making it an ideal base layer for old concrete tanks that have been high pressure water blasted or grit blasted and had the original smooth concrete surface removed resulting in a rough aggregate surface. The final product has excellent mechanical and adhesion properties, along with extended thermal insulation properties.

The system is environmentally friendly as it does not contain CFCs/HCFCs.

2. FEATURES

- ✓ Very good adhesion to standard concrete substrates.
- ✓ Can be applied over concrete substrates with high moisture content.
- ✓ Suitable for horizontal and vertical applications.
- ✓ Self-skinning consistent surface finish suitable for over coating with VIP membranes.
- ✓ Reduces application processes by eliminating hand applied cementitious skim coats and patch repair materials.
- ✓ Rapid application compared to mortar based skim coats.
- ✓ Suitable for internal, external and submersed applications.
- ✓ 100% solids, VOC-free, contains zero solvents.

3. TYPICAL USES

- ✓ As a surface repair and restoration layer on grit blasted or water blasted concrete substrates prior to the application of VIP protective membranes.
- ✓ Can replace hand applied cement based skim coats.
- ✓ Repair of exposed aggregate substrates – providing a closed substrate for the application of VIP membranes.

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4. PHYSICAL PROPERTIES		DATA	
Compressive strength		Greater than 10 kg/cm ²	
Water absorption		Less than 1%	
Dimensional stability at - 20°C		2 %	
Dimensional Stability at + 75°C (after 24 hours)		2 %	
Viscosity [mPa*s] @ 25°C	DIN EN ISO 2884-2 / ASTM D-4878	Comp. A: 300 – 900 Comp B: 300 – 700	
Density [g/cm ³] @ 20°C	DIN EN ISO 2811-1 / ASTM D-1217	Comp. A: 1,09 - 1,13 Comp. B: 0,96 - 1,00	
Density [g/cm ³]	EN ISO 1183-1: 2013-04; Verf. A	0,609	
Hardness [Shore D]	ISO 868:2003-03	15 s	12
Rebound resilience [%]	DIN 53512: 2000-04	3 layers	17
Tear growth resistance [N/mm]	DIN ISO 34-1: 2016-09; Meth. A	2	
Modul [MPa]	DIN 53504: 2009-10	2,1	
Tensile strength [MPa]	DIN 53504: 2009-10	2,3	
Elongation at break [%]	DIN 53504: 2009-10	111	

5. SUBSTRATE PREPARATION:

Ensure the substrate is clean and free from contaminants such as dirt, grease, release agents, curing agents, waxes and oil. Remove all loose material using a vacuum.

QuickSeal Expando FB 1 is designed to be applied to concrete surfaces that have been high pressure water blasted or Grit blasted. The resulting "open" surface profile must be clean and free from loose particles to ensure **QuickSeal Expando FB 1** achieves strong adhesion to the concrete substrate.

6. APPLICATION HINTS:

QuickSeal Expando FB 1 is to be applied by trained professionals using high pressure heated plural component spray equipment. The tack free times and free rise of **QuickSeal Expando FB 1** will vary depending upon site conditions and machine settings. Adjust primary and hose heater settings to suit conditions on site. Apply a light coat first and wait approximately 10 seconds before applying subsequent coats.

7. HANDLING AND STORAGE:

Risks – Inhalation may cause irritation to the respiratory system or sensitization. Contact with skin may cause irritation.

Safety – Avoid breathing vapour, wear suitable breathing equipment. Use protective clothing including eye wear and gloves.

First Aid - Eyes – flush immediately with copious amounts of water and seek medical attention.

Skin – remove contaminated clothing and wash skin with soap and water.

Inhalation – remove person from area to clean air. **SEEK MEDICAL ADVICE IF IRRITATION PERSISTS.**

Storage – Store away from direct sunlight, and away from moisture. Do not allow moisture to enter drums. Do not store near heat source. Not compatible with acids or food stuffs. Re-test material after 6 months storage.

Fire – Use self-contained breathing equipment. Extinguish using water fog, fine water spray or a dry agent such as Carbon Dioxide or chemical powder.

Spillage – Avoid inhaling vapours. Use protective clothing including eyewear, impervious gloves and boots. Construct dam to contain spill, cover with absorbent material, load into drum and dispose of according to local regulations

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own investigations and testing, the suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. These products require specialized equipment and skills to apply. It is the purchaser's responsibility to ensure that they have the necessary equipment, skills and experience to apply these products. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Technical and application information is provided for the purpose of establishing a general profile of the material and application parameters. Test performance results were obtained in a controlled environment and VIP makes no claim that these tests or any other tests can be accurately reproduced in all environments.

The rights of the purchaser regarding the quality of our materials follows completely our general terms and conditions. For requirements, which exceed the scope of the above mentioned applications please contact VIP technical staff.

VIP reserves the right to change or modify the details and data contained herein at any time.

Valid is only the actual version of this technical data sheet in each case.

Also include the following just below all the test data boxes.

* VIP recommends that in all applications involving chemicals a pre-test of the linings suitability in the customer's application is conducted. Consult with VIP Technical Team.

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