

Technical Bulletin #3.6 HYDROFLEX GUARD membrane

DESCRIPTION

- HYDROFLEX GUARD is a flexible, low perm, polymer and cement based trowel-on air and vapour barrier component. (HYDROFLEX GUARD was previously known as HYDROFLEX AKRIL-GUARD)
- Surface temperatures must not be below 4°C (40°F).
- Protect and mask surrounding areas from accidental contact with HYDROFLEX GUARD.

USE

- Trowel-on Weather Resistant Barrier (WRB) used as a vapour barrier component to retard the movement of moisture as it diffuses through the assembly of wall materials.
- Suitable for use with EIFS (Exterior Insulation & Finish Systems). Allows for adhesive attachment of insulation boards directly to the membrane.
- Sheathing joint and crack treatment (with mesh embedded).
- Air barrier component to reduce the risk of condensation caused by leakage of warm interior air through the wall system.
- HYDROFLEX GUARD membrane is used over approved substrates such as glass-mat faced gypsum board and concrete or masonry walls.

PACKAGING

- 20 kg (44 lbs) plastic pail.

COVERAGE

- Up to 14.9 m² (160 ft²) per pail as a membrane.
- Up to 7.5 m² (80 ft²) per pail for sub grade applications (2 coats).
- Coverage will vary based on the substrate, the job conditions and the individual application techniques.

SURFACE PREPARATION

- HYDROFLEX GUARD must be installed over an approved substrate or over surfaces that have been specifically designed for the membrane.
- Surfaces must be clean, dry, and in good condition, without efflorescence, grease, oil, paint or other bond-inhibiting substances.

MIXING

- Mix the contents of the HYDROFLEX GUARD pail until thoroughly blended. This will remove any settling of the contents due to storage.
- In a clean container, combine HYDROFLEX GUARD membrane with Type GU cement at a ratio of 1:1 by weight.
- Thoroughly mix to a homogenous state. Allow mixture to set up for 5 minutes and mix again to break the initial set.
- Small amounts of water may be added to adjust the consistency and workability. All other additives (antifreeze, accelerators, or otherwise) are strictly forbidden and may void warranties.

APPLICATION

- STANDARD MESH is embedded into the HYDROFLEX GUARD membrane to help dictate proper thickness as well as treat the joint between sheathing boards.
- Apply HYDROFLEX GUARD coat over the entire substrate surface to a uniform thickness of 2 mm (3/32"). Immediately embed ADEX reinforcement mesh into the wet HYDROFLEX GUARD trowelling from the centre of the mesh outwards to prevent wrinkles in the mesh. Smooth the membrane to eliminate trowel lines.
- The final thickness of the HYDROFLEX GUARD shall be sufficient enough so that the ADEX reinforcement mesh is fully embedded and not visible.
- Apply additional coats of HYDROFLEX GUARD where required once the initial application is dry.
- A two-coat application is required for CCMC projects.
- For subgrade applications where resistance to hydrostatic pressure is required, two coats of HYDROFLEX GUARD are necessary.

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REQUIRED THICKNESS

- 2mm (3/16").

Vapour Permeability
ASTM E 96-95
45 ng/Pa·s· m ² (1)
Water Absorption
CCMC MS 07240-99
Pass. (2)
Air Permeability
ASTM E-283: Requirement ≤ 0.02L/(s.m ²)
Less than 0.02 L/(s.m ²)
Adhesion
EIMA 101.03: Requirement ≥ 100 Kpa
Pass.
Hydrostatic Pressure Test
TTP-00141 (2 coats)
No leaks, 25kPa (4psi)
Fire Rating
EIMA 101.03: Requirement ≥ 100 Kpa
ULC approved retardant when mixed with Portland cement

(1) The HYDROFLEX GUARD membrane is considered a vapour barrier.

(2) The HYDROFLEX GUARD membrane meets CCMC standards.

■ Properties
■ Test Method
■ Result

CLEAN UP

- Immediately wash tools with water while material is still wet. Hardened material will have to be removed physically.

CURING TIME

- Approximately 24 hours under normal climatic conditions.
- Curing time is dependent upon the ambient and surface temperatures and the relative humidity.
- Protect from rain and freezing temperatures until fully dry.

LIMITATIONS

- Ambient and surface temperatures must be kept at or above 5 °C (41 °F) for a minimum of 24 hours.
- During installation, minimise the containers' exposure to extreme heat (temperatures above 32 °C (90 °F)).
- The HYDROFLEX GUARD membrane must be completely dry before ADEX insulation boards are installed.

STORAGE

- Protect material from direct sunlight, extreme heat and freezing temperatures.
- Store unused material in tightly sealed containers.

PRECAUTIONARY MEASURES

- Use only with fresh, lump-free GU Type cement.
- Protect and mask surrounding areas from accidental contact with ADEX HYDROFLEX GUARD membrane.

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