TexNov

TEXPRO FLEXSTOP CB

Water-Barrier & Air-Barrier cement membrane

FLEXSTOP CB

Cement membrane – Water-Barrier and Air-Barrier to waterproof the substrate

1-Product description

FlexStop CB is a cementitious, two-component membrane. It is composed of a flexible, acrylic polymer and reinforced fibers to improve its strength and rheology necessary to fill spaces between each panels. It is specially developed as an air barrier and water-resistant membrane for outdoor mineral substrates such as plasterboard covered with felt fiberglass (exterior gypsum), plasters, cement and other cementitious substrates approved by ***TexNov***.

The minimum thickness required is 1/8 “(3.2 mm) wet in two (2) layers applied for CCMC regulated projects.

2-Mixture

Mix a ratio of 35% of Portland cement type 10 and 65% by weight of ***FlexStop CB***. Make sure you always mix at high speed while you pour in the cement. Stir until completely dispersed and smooth. Wait 5 minutes and stir again for 1 minute before use.

Once dried, it provides a very low water absorption coefficient combined with good flexible strength that makes it an excellent two-component barrier against penetration of water and air.

3-Covered surface area

An 18.9L container of ***FlexStop CB*** covers between 120 and 140 ft.^{2} (11 and 13 m^2).

4-Product properties

FlexStop CB is an easy-to-use product.

5-Installation

Temporary protection:

For as long as the installation of the ***FlexStop CB*** membrane, the insulation panels, flashings, the base coat, the finish coat and sealants, have not been completed, you should protect the wall against rain, weather and other potential damage.

Surface preparation:

The substrate surface on which the ***FlexStop CB*** protective membrane is applied must be clean, dry and free of any dust, wax, grease, oil, rust and other products that will prevent good bonding prior to application.

Applying the product:

Use a steel trowel to apply the ***FlexStop CB*** membrane. It can be applied to a maximum thickness of 1/8” (3.2 mm). 3” (7.62 cm) mesh strips must be applied onto joints. Two layers of approximately 1/16”

(1.6 mm) of ***FlexStop CB*** are required for CCMC project. A flashing provides impermeability to water, air and weather.

During installation of the product: surface and ambient air temperature should be 5°C (41°F) or higher and should remain so for a minimum of 24 hours.

Drying:

FlexStop CB coating drying time depends on the wind, ambient air and relative humidity. Under normal drying conditions 21°C (70°F) and 55% RH, drying time is 24 hours

Cleaning:

You should clean your tools with water while the ***FlexStop CB*** mixture is still wet.

No screws or mechanical fasteners used to secure the insulation must pass through the ***FlexStop CB*** on CCMC projects.

6-Product storage

FlexStop CB should be stored at a temperature from 5°C (41°F) to 21°C (70°F) well-sealed and out of direct sunlight. Keep away form frost. The service life of the product is 1 year.

7-Transportation conditions

Regulated shipping name: not applicable.
TDG category:

Not regulated. Note: This product requires no special measures for international transport.

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Mixture properties	
Initial properties:	
pH initial / balanced	9.6 / 9.5
Viscosity (P.U.) initial/Balance	99/99
Viscosity (P.U.)	108
Properties after 10 Days at 60°C. :	
pH	8.2
Viscosity (P.U.)	108

Performance of *FlexStop CB* Mixed 35%: 65% with Portland Type 10 cement	
Test and method requirement	**Result**
Mixture density, g./cc	1.7
Workability	Very good
Duration of mixture in container Ambient temperature (20°C/68°F) 50°C *1	7 hours 4 hours
Hardness of thin coat*2 When dry	Very good
Transmission of water vapor CCMC 5.3.4 / ASTM E96*3	9,8 perms*7
Flexibility (1/16'' // 1.6 mm) Ambient temperature (20°C / 68°F) 4.5°C / 40°F	Successful 2" Successful 2"
180 Adhesion pull-off on concrete*4 **N/m (Newton/meter)** When dry Moist (1h / fog box)	2.75 N/m (C)*5 2.10 N/m (C)
Adhesion CCMC 5.3.3 / ASTM D1623 ≥0.1 MPa	0.94 MPa (Concrete)
Water pressure test*6 4 psi for 48h TTP-00141	Successful
Water absorption coefficient 72 hrs./ CCMC 5.4.4 / ISO 15148 ≤0.004 kg / (m^2 • $s^{1/2}$)	0.0035 kg / (m^2 • $s^{1/2}$)
Resistance to accelerated ageing CCMC 5.4.6 / ASTM G154 No negative effect 250 h	Successful

*1 *The **FlexStop CB** temperature and the cement have been balanced at a temperature of 50°C.*

*2 *24-hour curing time at ambient temperature.*

*3 *According to ASHRAE 2009, a vapor-proof product should have perms ≥10 and a vapor-tight product should have the ≤0. 1 perms.*

*4 *One week curing time at ambient temperature.*

*5 *Failure mode: C = cohesive break, A = adhesion failure.*

*6 *2 layers of the mixture were applied to the concrete block. Cure time was a week at room temperature. Tests conducted in accordance with the TTP-00141 method.*

*7 *Tested at a thickness of 3.2 mm.*

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