

Technical Data Sheet
Number : P-188 01
Effective Date : 01/01/2020

ULTRAFLEX CEMENT

UFC-910 2K WB



Two Components Flexible Cementitious Waterproofing

PRODUCT DESCRIPTION

UFC-910 2K WB is a two components flexible cementitious waterproofing membrane with superior in flexibility and adhesion to concrete and mortar. It is effective to seal the leak and prevent water seepage. This product is designed for a ready to use mixture, as an effective solution for waterproofing of wet area (bathroom, fish pond, swimming pool).

FIELDS OF APPLICATION

- Bathroom/toilet
- Terrace and balcony
- Flat roof
- Fish pond, swimming pool, water fountain, water tank, etc.

ADVANTAGES

- Water based and environmentally friendly.
- Supplied in 2-components, ready to use mixture, easy to apply.
- Slurry and trowelable.
- Flexible and effective to seal hairline crack of concrete (crack bridging).
- Resistant to water ponding.
- Excellent adhesion to concrete, prepared substrates.
- Protect against concrete carbonation and water penetration.
- Non toxic, can be applied on surfaces contact with drinking water (such as potable water tank).
- Long durability.

TECHNICAL DATA

Type	: Two components solventless amine cured epoxy
Color	: Grey
Solid by Volume (mixture)	: 85%
Specific gravity (mixture)	: 1.645 gr/cc
Material Consumption	: 1.8 kg-set/m ² for 1000 microns DFT
Drying time (30°C)	:
- Surface Dry	: 1-2 hours
- Hard Dry	: 6-8 hours
- Full Cure	: 7 days
Packaging	: 15 and 30 kg-set
Storage Stability	: One year in cool and dry storage and in original not opened box.
Mixing Ratio by Weight	: Comp A : B = 2 : 1 w/w
Pot life (30°C)	: 30 - 60 minutes
Application method	: Roller, brush, trowel
Re-coating interval (30°C)	: Minimum 2 hours
Application temperature	: 25 - 35°C
Humidity maximum	: 80% RH

Provide adequate ventilation during application and drying

WATERPROOFING



TEST PERFORMANCE DATA

Item	:	Result	Standard Test
Adhesion to substrate	:	> 2 N/mm ² concrete failure	ASTM D-4541
Hardness	:	70 osc	ASTM D-2240
Tensile strength	:	1.5 Mpa	ASTM D-412
Elongation	:	> 110 %	ASTM D-412
Water absorption	:	6 - 8 %	ASTM D-570
Water vapor transmission	:	60	ASTM E-96
Crack bridging	:	3 mm	DIN 1164

INSTRUCTION FOR USE

Substrate Requirement

The substrate must be structurally sound and free of all traces of contaminants, loose and friable particles, cement laitance, sharp edges, oils and grease, etc. The concrete pull-off (tensile adhesive) strength must be > 1.0 N/mm².

Surface Preparation

Age of concrete must be more than 28 days. The surface to be coated must be clean from dust, dirt, oil, grease and loose material with appropriate method. The substrate must be prepared by suitable mechanical preparation techniques such as high pressure water jetting, needle guns, blast cleaning, scabblers, etc and properly pre-wetted to a saturated surface dry condition.

All intersections of horizontal and vertical surface should be profiled with a mortar fillet of 25 mm x 25 mm.

Application Procedure

Function	Product and Tools	Coating amount	Curing Time
Mixing	: Use a low speed electrical stirrer/mixer for mix one full set of Ultraflex Cement UFC-910 (comp. A : comp. B = 2 : 1 w/w) for at least 2 minutes until the mixture is homogeneous.		
1 st Coat	: Apply Ultraflex Cement UFC-910 that has been mixed by pouring it on the substrate and spread the mixed material using trowel, brush or roller.	1.8 kg-set/m ² (for 1000 microns DFT)	2 hours
2 nd Coat	: After minimum 2 hours of 1 st coat application (at 30°C and have adequate ventilation during drying time), apply Ultraflex Cement UFC-910 that has been mixed by pouring it on the 1 st coat and spread the mixed material using trowel, brush, roller on the opposite direction from the 1 st coat.	1.8 kg-set/m ² (for 1000 microns DFT)	7 days

RECOMMENDED COATING SYSTEM

- 1st Coat : Ultraflex cement UFC-910 2K WB
- 2nd Coat : Ultraflex cement UFC-910 2K WB

CLEANING

All tools and equipment should be removed with soap water, rinse again with clean water immediately after use. Hardened material can only be removed mechanically.



SAFETY PRECAUTIONS

Ultraflex cement UFC-910 2K WB does not contain any material with heavy metals such as lead. Avoid contact with skin and eyes. Wear suitable protective clothing such overalls, goggles, dust mask and gloves. Use barrier cream. This product is not flammable. Do not breathe vapor of spray.

First Aid

- Skin contact : Rinse under plenty of water immediately. Seek medical advice if irritation persists.
- Eye contact : Wash off under plenty of water immediately. Seek medical advice if irritation persists
- Inhalation : Take the person out to get more fresh air, loosen collar and avoid exertion. Keep him rested and help using breathing apparatus.

WATERPROOFING

