CORAL Flexible W889

Flexible Cementitious Co-polymer (Acrylic)Waterproofing Coating

彈性水泥基聚合物(丙稀酸)防水塗層/批盪

1.0 Description

CORAL Flexible W889 is kind of "Ready-For-Use" flexible cementitious waterproofing coating which is specially designed to withstand surface movement of concrete; its excellent properties in adhesion strength constitute an unique function for this product in pressure resistance and anti-rust formation. It is an ideal cementitious material for both waterproofing and resurfacing most of the building façade, floor, wall and tanking, etc.

2.0 Technical Data

Content	Special formulated cement power + resin component	
Color	Grey	
Flexural strength at 28th day	> 2.8 N/mm^2	BS6319:Part 3
Elongation at break	> 170%	ASTM D412-92
Adhesion to concrete	> 0.7 N/mm^2	MateriaLab – HKHA/MTS
Flexibility over 25mm diameter mandrel	Passed	
Bridge cracks up to 2mm	Passed	
Hardness shore A	> 72	ASTM S2240:91
Resistance to Hydrostatic Pressure under substandard construction joint		MateriaLab – CNMS -072
- Standing System	Up to 6 meter water head	
- Reinforced Sandwich System	Up to 45 meter water head	
Water vapour transmission	< 25g/m^2/24hours	
Water vapour co-efficient (DH_2O)	> 3.64 X 10^{-4} cm^2 /s	
Chloride content	< 0.01	
Chloride ion diffusivity	Zero penetration #190 days	
Chloride ion diffusion co-efficient (DCI)	1.04 X 10^{-7} cm^2/s	
Suitable for water tank	Complied	BS6920:part 1 1996 clause 8
Working time (30°C)	Approx. 1 hour	
Drying time (30°C) Touch Dry	1 to 2 hours	
Foot trafficable	4 hours	
Mixing Ratio Power: Resin	15.7 Kg : 4.3 Kg	
CO^2 diffusion resistance	Sc>89 cms. (1mm dft) Sc – equivalent concrete thickness	
Oxygen diffusion co-efficient (DO^2)	7.6 X 10^{-6} cm^2 /s	

3.0 Typical Application

a) Waterproofing : Drinking water reservoirs, cellars, elevator shafts, drainage channels, dome, tunnel swimming pool and external walls.
b) Flooring: Walkway, Carpark, Washroom.

3.1 Quality System

Depending on following of application chart, Coral Flexible W889 is divided into 2 systems.
(a) Standing System: 1 to 2 coat to achieve minimum thickness of 1 mm.
(b) Reinforced Sandwich System: 2 coats of Coral Flexible W889 reinforced by LABOND Fibra Glass Mesh A907 to achieve thickness > 2mm.

Type of Application / Type of substrate	Water Tank & Swimming Pool, Reservoir & Sauna Pool		Kitchen, Sauna Room, Washroom	Floor Decking		External/ Internal Façade
	Depth ≦ 3.5M and Area ≦ 100m	Depth: ≦20 M and Area: Not Limited	All types	Subject to light traffic	Subject to heavy traffic	
Concrete	S	R	S or R	S	R	S
Sound Cement Plaster	S	R	R	R	R	R
Brick Wall	R	R	R	N/A	N/A	R
Tiled Floor	R	R	R	R	R	N/A
Metal Structure	R	R	N/A	R	R	N/A
Light Weight Block Wall	N/A	N/A	N/A	R	R	R
Plastic Type	T	T	T	N/A	N/A	T
Other	Please consult technical officer of LABOND.					

S: Standing System **T: Compatibility Test Requested** **R: Reinforced Sandwich System** **N/A: Not Applicable**

MASTER PROOFER 香港萬寶建築化工 Integrity & Accuracy 誠信・精準

LABOND Range of products are designed, manufactured and supplied by MASTER PROOFER COMPANY LTD
Head Office: 139A Hung UK Tsuen, Ping Shan, Yuen Long, N.T., Hong Kong
Tel :(852)2609 2300 Fax:(852) 2609 2309 E-mail:master@masterproofer.com

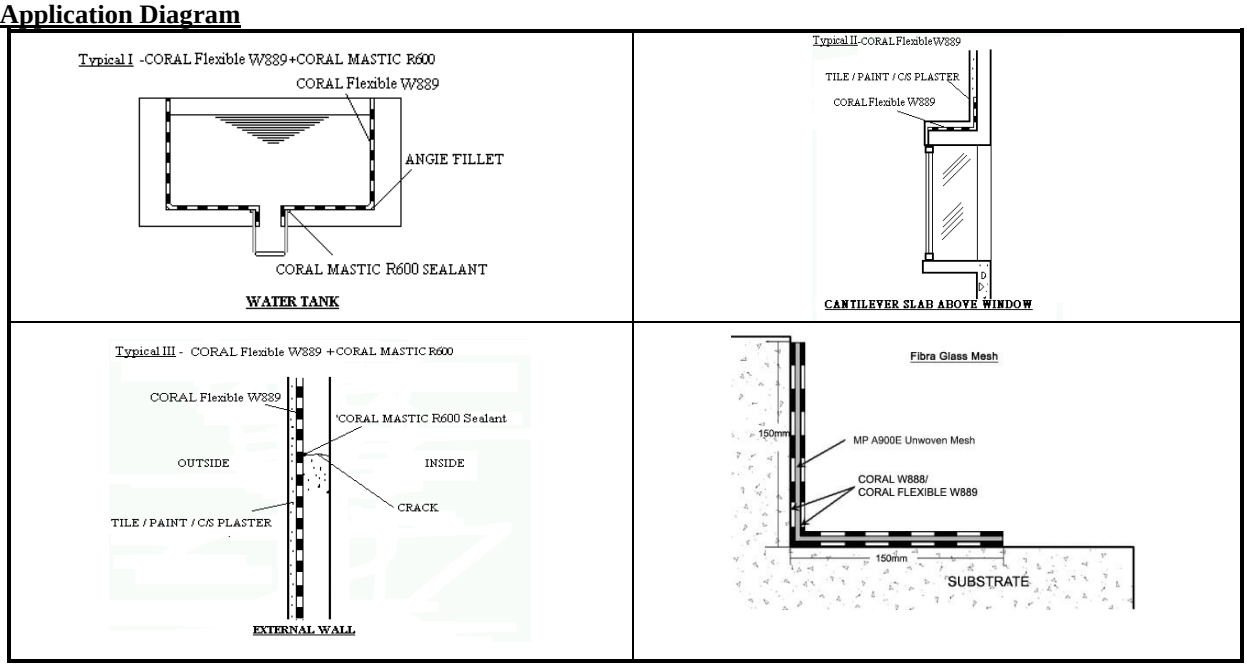
CORAL Flexible W889
Flexible Cementitious Co-polymer (Acrylic)Waterproofing Coating /Screeding

4.0 Application Details

4.01 Preparation:

All surfaces should be sound, clean, dry, free of dust, oil, grease or other contamination. Loose matter should be removed by abrasion, compressed air or high pressure water. Honeycomb concrete, bristles, cracks, hollow joints must be pretreated before application of Coral Flexible W889. V cut perimeter of pipe though slab or wall (where necessary) sealed by CORALMASTIC R600 Cementitious Sealant (Please consult our technical department for recommendation on cracks treatment). Mixing the ready packed power and resin manually to obtain a creamy mortar. Under high humidity substrate, for instance, water tank and swimming pool after flowing out of water, water content of the substrate is still very high. Therefore, in order to get a good effect of subsequent waterproof coating. You have to pending the application until concrete's water content down to 18 C or below (Detected by Portimeter).

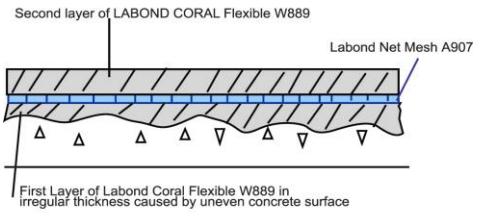
5.0 Application Diagram



6.0 Application

For Standing System: Apply the first layer with a brush or a trowel at a rate of 1 kg per m^2. Allow at least 2 hours for the first layer to cure initially. Then apply second layer at a rate of 1 to 2 kgs per m^2 and allow 24 hours for second curing. CORAL Flexible W889 does not dry rapidly, you should not allow the uncured product be interrupted by touch or exposed under strong sunlight , winds and busy traffic areas. Do not try to scorch to accurate curing and have to work and cure strictly under temperature range of 5°C to 35°C.

For Reinforced Sandwich System: Apply first layer with Coral Flexible W889, lay LABOND Fibra Glass Mesh A907 onto first coat. Slightly press to embed LABOND Fibra Glass Mesh A907 into first coat, then apply second coat immediately to cover all area of LABOND Fibra Glass Mesh A907. Allow 72 hours for complete curing before filling in water.



7.0 Health and Safety

Product contains cement which may cause dermatitis. Wear rubber gloves when handling the product. In case of insufficient ventilation , put on suitable respiratory equipment. Product is classified as non-hazardous.

8.0 Material Coverage

3 Kg per M^2 per 2 layers application in achieving minimum 1.5mm.

9.0 Technical Services

The Technical office of Master Proofer Company Ltd are readily available for advice on any of LABOND's products.

10.0 Packaging

20 Kg / kit (A-powder:15.7 kg + B-resin.:4.3 kg)