

FORMDEX UNI

FLEXIBLE CEMENTITIOUS WATERPROOFING MEMBRANE

DATA SPECIFICATION SHEET

DESCRIPTION

Formdex Uni is a cementitious, two-component, polymer-modified, elastomeric waterproofing membrane. Owing to its composition of cement, quartz sand and a special blend of chemical ingredients of an inorganic nature, Formdex Uni is 100% compatible with all masonry structures. It is efflorescence free and can be used against active or passive water pressure. Due to its excellent adhesion, high flexural and tensile strength, it can be easily applied to both horizontal and vertical surfaces

COMPOSITION

Component A

Powder form - consists of Ordinary Portland Cement, graded quartz sand and inorganic additives.

Component B

Liquid form - is the polymeric binder, which is essentially a modified styrene acrylic co-polymer that gives the product its excellent resistance against water and alkali.

AREAS OF USAGE

- Wet Areas - toilets, bathrooms, kitchens, shower areas, balconies etc.
- Swimming pools, water features and water retaining structures
- Decks, patios, walkways
- Driveways and lift pits

PRODUCT SPECIFICATION



	Component A	Component B
COLOUR	: Grey	: White
PACKAGING	: 25 kg (powder)	: 17 kg (liquid)
MIXING RATIO		: 1.5 : 1.0 (by weight)
SHELF LIFE		: one year in dry environment
COVERAGE		: min. 1.0kg/m ² /coat x 2 coats (approx. 1.2 mm dry film thickness)
POLYMER IDENTIFICATION		: Styrene Acrylic
POLYMER CONTENT		: 20.45%
RESISTANCE TO WATER PRESSURE (DIN 1048)		: No penetration @ 5 bars
ADHESION TO SUBSTRATE (ASTM D4541)		: 1.05 N/mm ²
TENSILE STRENGTH (ASTM D412)		
BEFORE AGEING		: 1.55 N/mm ²
AFTER AGEING AT 50C, 14 days		: 2.05 N/mm ²
AFTER IMMERSION FOR 72 hours at Room temperature		
i.) 0.5% (v/v) NaOCl		: 1.52 N/mm ²
ii.) 1.25% (v/v) NH ₄ OH		: 1.50 N/mm ²
iii.) 3.7% (v/v) HCl		: 1.46 N/mm ²

ELONGATION AT BREAK (ASTM D412)

BEFORE AGEING	: 156%
AFTER AGEING AT 50C, 14 days	: 127% (change -18.6%)
AFTER IMMERSION FOR 72 hours at Room temperature	
i.) 0.5% (v/v) NaOCl	: 133% (change -14.7%)
ii.) 1.25% (v/v) NH4OH	: 131% (change -16.0%)
iii.) 3.7% (v/v) HCl	: 159% (change 1.9%)
CRACK BRIDGING (ASTM C1522)	
AT 2MM WIDTH	: No Cracks
AFTER 10 CYCLES OF STRETCHING AND CLOSING	: No Cracks
AT A WIDTH OF 1MM	
HARDNESS (SHORE A) (ASTM D2240)	: ≥ 70
SET-TO-TOUCH (ASTM D1640)	: 60 minutes
CHLORIDE CONTENT (ISEA METHOD)	: 0.03%
WATER TOXICITY (SS 375: 2001)	: Passed

APPLICATION

Make sure the substrate is clean and remove dust, dirt and loose particles. The surface to be treated shall be pre-wetted down using clean water and there should be no puddles of water when applying Formdex Uni.

- Priming is not required.
- Mixing : Material must be thoroughly mixed in the ratio of 1.5 kg of powder to 1 kg of liquid (by weight) by adding powder to liquid and thoroughly mixed at low speed with a mechanical mixer. Mixed material has a pot life of 60 minutes.
- Before application, pre-wetted the surfaces to which the coating shall be applied. Substrate should be damp not wet.
- Apply Formdex Uni by brush or roller.
- Apply Formdex Uni at 1.0 kg/m² per coat in either 2 or 3 coats (as specified) to the entire floor and turn up every perimeter wall to a minimum height of 300mm from the finished floor level or as specified in the architect drawings.
- Allow 3 hours drying time between coats.

PONDING & PROTECTION

Ponding test can be carried out 24 hours after application. Back-filling, screeding, tiling etc. can normally be carried out carefully 24 hours after application of the final coat. Water retaining structures can only be filled with water after three days of curing.

HEALTH & SAFETY

Read the product label and Material Safety Data Sheet (SDS) before use. Users should acquaint themselves with all risk and safety phrases.

Place Product
Sample Here

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Revision F

All data given and statements and recommendations made herein are based upon our research and experience and are believed to be accurate. However, no guarantee of their accuracy is made or applied. This data specification supersedes all other issues.