Hitchins since 1932

ASIA'S LEADING BUILDING PROTECTION SPECIALIST

FORMDEX UNIFLEX TYPE-R

HIGH FLEXIBLE ROOT-RESISTANT CEMENTITIOUS WATERPROOFING MEMBRANE

SINGAPORE GREEN BUILDING PRODUCT SGBC LEADER

GreenLabel SINGAPORE 032 002 Environmentally Preferred Coating

DATA SPECIFICATION SHEET

DESCRIPTION

Formdex Uniflex Type-R is a specially formulated two component flexible cementitious water-proofing membrane with root resistant property. It is a water-based liquid applied waterproofing membrane that cures to form a permanently flexible yet tough and durable physical film. It water-proofs the surface when applied on and can withstand high hydrostatic pressure. Its special root resistant property prevent plants roots from damaging the membrane.

Formdex Uniflex Type-R is 100% compatible to masonry structures and can receive plastering or protection screed. It can be applied on damp surface and cures even in confined spaces.

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

Its root resistant property makes it ideal for waterproofing to Planters, Landscape Decks and Roof Gardens with ground covers, shrubs or low height plants. It is not suitable for planters with trees.

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/m²/coat x 2 coats (approx. 1.2 mm dry film thickness)
RESISTANCE TO WATER PRESSURE (DIN 1048)		: No penetration @ 5 bars
ADHESION TO CONCRETE (ASTM D4541)		: 1.53 N/mm²
TENSILE STRENGTH (ASTM D412)		: 1.65 N/mm²
ELONGATION AT BREAK (ASTM D412)		: 178%
CRACK BRIDGING (ASTM C1522)		: No Cracks at 2mm width
HARDNESS (SHORE A) (ASTM D2240)		: ≥ 60
CHLORIDE CONTENT (ISEA METHOD)		: 0.01%
ROOT RESISTANCE (DIN 4062 / PD CEN/TS 14416)		: Passed

APPLICATION

SUBSTRATE PREPARATION

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.

SUBSTRATE APPLICATION

• 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 with ponding water.
• Apply Formdex Uniflex Type-R by brush or roller.
• Apply Formdex Uniflex Type-R at 1.0 kg/m^2 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.
• Overlapping between fresh and existing layers must be a minimum of 100mm width.
• Allow 3 hours drying time between coats.

Detailing (Upturn, Downpipe, Pipe Penetration etc.)
• Apply 1 coat of Formdex Uniflex Type-R by brush or roller at a coverage of 1.0 kg/m^2 per coat.
• Lay a strip of fiberglass mat over the fresh coat of Formdex Uniflex Type-R.
• Immediately apply the 2nd coat of Formdex Uniflex Type-R at a coverage of 1.0 kg/m^2 over the fiberglass mat. Ensure that the entire fiberglass mat is fully embedded between coats.
• Allow to cure for minimum of 24 hours prior to laying of protection screed or other finishes.

*If angle fillet is provided along internal corners, the use of fiberglass mat can be omitted.

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.

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