

Dr. Fixit Bathseal Select



HIGH SOLID 1K WATERBORNE WATERPROOFING MEMBRANE

Description

Dr. Fixit Bathseal Select is a ready-to-use; liquid-applied elastomeric water based waterproof coating. That cures to form a monolithic membrane designed for wet areas under tiled finish application. Being a 1K liquid applied coating, it reduces mixing errors and saves time due to excellent flow properties and thereby easy application with roller or brush. It is fully compatible with polymer modified cement based tiles adhesives, screeds and renders.

Technical compliances:

- Complies to Singapore Housing Development Board (HDB):for wet area application.
- Compliance to Australian Standard AS /NZS 4858 :2004 Class II: membrane "Waterproofing of Wet Areas in Residential Buildings".
- Compliance to EN 14891: Liquid applied water impermeable products for use beneath ceramic tiling bonded with adhesives.

Typical Application

Waterproof coating for internal wet areas as under tiled finishes

Concrete, Pre-fabricated bathrooms, toilets and drywall partitions, kitchens, laundry area.

Features

- Ready to use straight from the pail
- Flexible, has crack bridging ability
- High bond strength to a variety of substrates and building materials
- Bonds to clean metal drains, PVC, and ABS drain assemblies
- Liquid applied membrane, can be applied with roller, brush
- Non-toxic, Provides a seamless coating

Method of Application

1 GENERAL SURFACE PREPARATION

- Surface must be clean, dry and in sound condition to ensure adequate adhesion.
- To aid in adhesion on a concrete or screeded surface, the smoothness of substrate should be at least the equivalent to that of a wood float or light broom finish
- Remove all oil, grease, dust, loose particles and other foreign material.
- All bug holes, surface undulations, shrinkage cracks and other defects in RCC, brickwork masonry and AAC block substrates shall be repaired with suitable Polymer Modified Mortar (PMM) prior to application of Dr. Fixit Bathseal Select.
- Metal and PVC fitting and trims must be primed with Dr. Fixit Bathseal Select to provide good bond.
- Grind the, smooth finishing of wall and slab and make it rough to receive the coating
- All junction of drywall subject to movement shall be first sealed with Feviseal HY 300 hybrid sealant.
- All new concrete slabs must have a wood float finish and be allowed to cure for at least 6 weeks.
- Required to provide fillet at all vertical and horizontal transition of size to 50 mm x 50 mm with cement and sand mortar screed admixed with Dr. Fixit Pidicrete URP 10 % by weight of cement

2 WATERPROOFING APPLICATION FLOORS & WALLS

For Floors:

- Lightweight or gypsum-based materials must obtain a minimum 14 MPa compressive strength at the recommended cure time. Surfaces to be covered must be clean, dry, and structurally sound.



- All corners, coves, floor-to-wall junctions, drainage flanges, pipe penetrations and PVC pipe joints shall be reinforced by embedding Dr. Fixit Corner Joint Tape into a liberal coat of Dr. Fixit Bathseal Select. Apply a second coat after the gap of 3-4 hrs the first coat has dried to fully encapsulate the Joint Tape. Ensure the reinforcement is completely saturated and free from wrinkles, creases and entrapped air pockets.
- Prime all prepared surfaces with a self-priming coat of Dr. Fixit Bathseal Select diluted with clean water in a 1:1 ratio. Apply at a coverage of 8-10 m²/L and allow the primer coat to dry for 3-4 hours before subsequent application.
- Apply two undiluted coats of Dr. Fixit Bathseal Select by brush or roller. The second coat shall be applied at right angles to the first coat after an interval of 3- 4 hours. Apply at a total consumption of 1.1-1.3 L/ m², including the self-primer coat, to achieve a dry film thickness (DFT) of 500-600 microns. Allow the membrane to cure for a minimum of 5 days prior to tile installation. Drying and curing times may be extended under conditions of low temperature and/or high humidity.

For Walls:

- Within shower areas, the waterproofing membrane shall be extended vertically to a minimum height of 1800 mm above the finished shower floor level and horizontally up to the line of the fixed shower screen/door, or 300 mm beyond the shower curtain line, or 1500 mm beyond a fixed shower rose in open shower areas, or 600 mm beyond the reach of a hand-held shower rose, whichever is applicable.
- After complete air curing of the waterproofing membrane, tiles shall be installed using a suitable (Class C2TE) grade tile adhesive conforming to EN 12004:2017 / ISO 13007. Such as Roff Vitrofix Ultra Adhesive. Tile joints shall be finished with suitable cementitious or epoxy grout.

3 APPLICATION OF WET AREA WATERPROOFING FOR SUNK BATHROOMS, NON-SUNK AND MIVAN CONCRETE SURFACES

- The RCC slab shall be prepared by removing all loose particles, laitance, dust, oil, grease and other contaminants. All bug holes, honeycombs, surface undulations, shrinkage cracks and defects shall be repaired using suitable Polymer Modified Mortar (PMM) or Dr. Fixit Pidigrout 10m prior to waterproofing application.
- In sunk bathrooms, Dr. Fixit Bathseal Select shall be applied directly over the prepared RCC slab and extended over all vertical upturns up to minimum 300 mm above floor level, after which a protective screed shall be laid before tile installation.
- All corners, coves, wall-to-floor junctions, drainage flanges, pipe penetrations and PVC pipe joints shall be reinforced by embedding Dr. Fixit Corner Joint Tape into a liberal coat of Dr. Fixit Bathseal Select. After the first coat has dried, apply a second coat to completely encapsulate the tape. Ensure the reinforcement is fully saturated and free from wrinkles, creases and entrapped air pockets.
- Prime all prepared surfaces with a self-priming coat of Dr. Fixit Bathseal Select diluted with clean water in a 1:1 ratio. Apply the primer at a coverage of 8-10 m²/L and allow it to dry for 3-4 hours before application of subsequent coats.
- Apply two coats of undiluted Dr. Fixit Bathseal Select by brush or roller, allowing 3-4 hours between coats. The second coat shall be applied perpendicular to the first coat. Apply at a total consumption of 1.1-1.3 L/m², including the self-primer and 2 coat, to achieve a dry film thickness of 500-600 microns.
- After complete curing of the waterproofing membrane, conduct a ponding test with 50 mm water for a minimum period of 24 hours to verify watertightness to done after 5 days of air cure.
- Upon successful completion of the pond test, protect the waterproofing membrane with a cement-sand screed laid to the required slope towards the floor drain. The screed shall be prepared using cement-sand mortar admixed with Dr. Fixit Pidicrete URP at 10% by weight of cement.
- Brickwork and AAC block walls shall be plastered with cement-sand mortar (1:4 or 1:6), adequately cured and brought to SSD condition before self primer and 2 coats without water dilution application with Dr. Fixit Bathseal Select . Following adequate curing of the screed, floor and wall tiles shall be fixed using a suitable (Class C2TE) grade tile adhesive.
- For MIVAN concrete surfaces, Dr. Fixit Bathseal Select may be applied directly on the prepared concrete wall substrate, and tiles may subsequently be fixed using a suitable (Class C2TE) grade tile adhesive conforming to EN 12004:2017 / ISO 13007. Such as Roff Vitrofix Ultra Adhesive. Tile joints shall be finished with suitable cementitious or epoxy grout.

Note:

- In wet areas subjected to frequent water splashing, the waterproofing membrane shall be extended to a minimum height of 1000 mm above the finished floor level to provide adequate tanking protection against water migration to adjacent or lower areas.
- In shower and bath areas, the membrane shall be applied to a minimum height of 1800 mm above the finished floor level and extended horizontally to cover the entire splash zone, including adjacent walls exposed to direct water contact.
- For walls immediately adjacent to or behind wash basins, sinks and similar fixtures located within 75 mm of the wall, the waterproofing membrane shall be extended to at least 300 mm above the fixture.

4 FIXING OF SANITARY FIXTURES, PIPE PENETRATIONS & WATERPROOFING DETAILS

- All sanitary fixtures, plumbing lines, floor traps, drainage outlets, sleeves and pipe penetrations shall be installed and securely fixed prior to commencement of Dr. Fixit Bathseal Select waterproofing application. Any subsequent cutting, chasing or damage to the waterproofing system shall be avoided.
- The substrate surrounding all pipe penetrations, floor traps and sleeves shall be sound, clean and free from loose particles, dust, oil and other contaminants before waterproofing application.

Non-Sunken Bathrooms

- All gaps, annular spaces and openings around sanitary pipes, sleeves, floor traps and service penetrations passing through RCC or masonry shall be grouted using Dr. Fixit Pidigrout 10M, a non-shrink cementitious grout, to achieve a watertight seal.
- After completion of grouting, all pipe penetrations, floor drains and junctions shall be reinforced with Dr. Fixit Pipe collar embedded in Dr. Fixit Bathseal Select coating prior to application of the waterproofing membrane.

Sunken Bathrooms

- All gaps, sleeves and pipe penetrations within the sunken slab shall be repaired and packed using suitable Polymer Modified Mortar (PMM) to form a dense, crack-free and watertight substrate before waterproofing application.
- Pipe penetrations, floor traps, drainage outlets, corners and junctions shall be reinforced with Dr. Fixit Corner Joint Tape embedded in Dr. Fixit Bathseal Select before application of the full waterproofing system.
- Upon successful completion of the waterproofing and ponding test, the sunken portion shall be protected with a cement-sand screed laid to the required slope prior to tile installation.

5 DRYING / CURING TIME AT 30°C / 85% RH

- Over-coating interval - 3-4 hours (depending on weather conditions).
- Drying time may vary depending on the prevailing climatic conditions; low temperature and higher relative humidity may prolong the drying process.

Precautions & Limitations

- Do not use as wear surface, the Dr. Fixit Bathseal Select membrane must be covered with tile or other permanent flooring.
- Do not apply when temperatures are below 10°C and above 35°C
- The proper formation of the coating film can be affected if the coating is applied when the air temperature is below the specified temperature range (10°C). Temperature variations can affect the (film formation) of a coating, causing color variations
- Do not apply on existing concrete slabs on-ground with relative humidity levels over 85%. Contact Technical Services for other conditions for additional information.
- Pond test shall be carried out only after 5 days of air curing / drying of Dr. Fixit Bathseal Select with 25 mm water for 2 days.
- Avoid skin contact, use of gloves and safety glasses is recommended while using the product.



Technical Information

TECHNICAL PARAMETERS	STANDARD	RESULTS
Apperance	Visual	free flowing liquid
Colour	ASTM D 412	Green
Tensile Strength, 14 days cure	ASTM D 412	$\geq 2.0 \text{ N/mm}^2$
Elongation 14 days cure	ASTM D 412	$\geq 300\%$
Shore A Hardness	ASTM D 2240	≥ 60
Pull of adhesion on concrete		$\geq 1.5 \text{ N/mm}^2$
Water Vapour Transmission	ASTM E 96	10-40 g/M ² /day
Mendrasl Bend test (6 mm dia)	1800 around cylindrical mendral	passes, no cracks
Water absorption	ASTMD 471	complies
Waterproofing	No penetration	Nil
Crack bridging ability at std Condition (23°C $\pm$ 2)	$\geq 0.75 \text{ mm}$	$\geq 2.0 \text{ mm}$

Mechanical properties

BASIC CHARACTERSTICS	REQUIRMENT AS PER EN14891	RESULTS
Initial Tensile Adhesion Strength	$\geq 0.5 \text{ N/mm}^2$	$\geq 1.0 \text{ mm}$
Tensile Adhesion Strength after water Contact	$\geq 0.5 \text{ N/mm}^2$	$\geq 1.0 \text{ mm}$
Tensile Adhesion Strength after heat ageing	$\geq 0.5 \text{ N/mm}^2$	$\geq 1.0 \text{ mm}$
Tensile Adhesion Strength after Freeze Thaw cycle	$\geq 0.5 \text{ N/mm}^2$	$\geq 1.0 \text{ mm}$
Tensile Adhesion Strength after contact with lime water (N/mm ²)	$\geq 0.5 \text{ N/mm}^2$	$\geq 1.0 \text{ mm}$

*Tile Adhesive -Roff Extrofix Grey /Roff Extrofix Ultra Grey or equivalent grade EN 12004:2017/C2 compliance

BASIC CHARACTERSTICS	REQUIRMENT AS PER BS/NZS 4858	RESULTS
Water immersion 7 Days @ RT		Passes
Bleach Immersion 7 days		Passes
Detergent Immersion 7 days	Elongation at Break shall not be less than 50 % of that of the controls	Passes
Heat ageing		Passes

Theoretical Coverage*

To achieve 500-600 microns DFT, use 1.1-1.3 litre/sq.m/self-priming & 2 coats.

*Coverage may vary depending upon the texture and porosity of the surface.

Packaging

4, 10 & 20 Liters

Shelf Life

- Keep containers closed away from heat and flame when not in use; store in a cool & dry place.
- 24 months from the date of manufacture in unopened & proper storage conditions.

Health & Safety

This product is a water based emulsion of non-hazardous polymer. It is non-flammable and essentially non-toxic. Normal industrial hygiene procedures should be adhered to particularly when spraying and it is recommended that gloves and eye protection be worn. In case of skin or eye contact thoroughly irrigate with water and seek medical advice if any irritation develops or persists. In the case of accidental ingestion, wash mouth out with water and seek medical attention. Spillages should be cleaned up immediately with water as they will leave a film on evaporation. See MSDS for further information.

Other Products Categories available

Dr. Fixit brings you the widest range of Construction Chemicals



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