

Flexi-SEAL[®]

Licensed waterproofing system



BRANZ Appraised

**SPECIFY WITH
CONFIDENCE**

*MEETS THE REQUIREMENTS OF THE NEW
ZEALAND BUILDING CODE UNDER CLAUSE
E2 EXTERNAL MOISTURE AND CLAUSE E3
INTERNAL MOISTURE AS AN ACCEPTABLE
OR ALTERNATIVE SOLUTION.*



www.flexiseal.co.nz

Introduction...

Waterproofing of showers, bathrooms, decks and balconies is an important process in the construction of any new building or renovation. It is even more important to waterproof them properly and with the correct products. Because the waterproofing process is basically "out of sight" it can also be "out of mind", and is often completed unskilfully and inappropriately by tilers and other tradesmen whose core business is anything but waterproofing. Failure to provide a complete waterproof seal under showers and decks can prove to be costly, and a source of great heartache to building owners and developers.

The "Flexi-Seal Licensed Waterproofing System" says it all. It is a license applied 2 Part flexible waterproofing membrane, that provides an efficient and permanent water barrier, without compromising its integrity. Offering long term protection, the system provides a high degree of water resistance, and outstanding cohesive strength. The Flexi-Seal 2 part Liquid Membranes cohesive strength gives the ability to absorb considerable substrate movement, and bridge developing cracks. This is another important feature.



APPROVED
Flexi-SEAL®
Licensed
Waterproofing
System
GUARANTEE

FREephone 0800 H20TIGHT
0800 4 2 6 8 4 4

Application by your Flexi-Seal Licensed applicator

The first stage

begins with the licensed applicator inspecting the substrate and area to be waterproofed. The applicator will communicate any problems with the installation of the wall, floor or deck substrates back to the installer or builder, who must remedy the situation prior to the installation of "Flexi-Seal". Once satisfied, **Stage 1 - "Substrate Installation"** is signed off.

The second stage

comprises of the preparation and waterproofing process.

The "Flexi-Seal" system can be applied to most substrates, but generally, concrete, cement board, gib board, plywood and particle board are the common ones.

Step 1 requires the substrate to be clean, dry and free of any dust and contaminants. Substrates, which are contaminated with moss lichen and mould, will first require treatment with "Orgo-Clean", organic moss and lichen control, followed by washing down or waterblasting.

Step 2 requires holes to be filled, particularly on plywood decks and particleboard floors. "Flexi-Seal Nail 'n Screw Patch" is used for this process. Also at this stage galvanised heads on clouts etc are spot primed with "Flexi-Seal Mega Prime". This is a two part epoxy primer.

Step 3 requires the bondbreaker mechanism to be put in place.

Floor/wall and wall/wall junctions are filled with a siliconised compound. Larger gaps may require a foam-backing rod to be installed first. These junctions are then reinforce taped with, "Flexi-Seal Reinforcing Tape" for internal semi wet areas, "Butylseal Tape" for immediate wet areas such as showers and also floor joints, and "Flexiseal Deck Joint Reinforcing Tape" for exterior deck joints.

Step 4 involves the application of a single saturation coat of "Flexi-Seal Sealer / Primer" on concrete, gib and cement board. This is applied to the entire area, paying attention to even coverage both to walls and floors. This is a milky white penetrative solution that will soak in and further stabilise the substrate, leaving either an invisible or slightly low sheen clear coating on the surface. "Flexi-Seal Mega Prime" is used on plywood and particle board surfaces. Plywood must be treated with CCA and not LOSP as stated in clause 8.1 of the Flexi-Seal BRANZ Appraisal #475.

After approximately 1 hour cure, the waterproofing process can begin.

This is a two coat process, and each coat is applied at a rate of approximately 1 litre per square metre.

The first coat cures to a very dark grey colour. The two part membrane is mixed proportionally by weight and then applied to all surfaces with care being taken to prevent unnecessary buildup at joins and junctions. On decks, "Flexi-Seal Micron Mat" is used to prove micron thickness of the

membrane. This is encapsulated within the first coat.

After approximate 45 – 60 minutes of drying/curing, the second coat can be applied.

The second coat is a lighter grey colour. This is a different colour to the first coat to ensure 100% proof of coverage. Once again attention is paid to unnecessary buildups and any pinholing which may have appeared in the first coat.

Curing of the finally installed membrane is important. The final system must be fully cured prior to the installation of tiles or other floor or wall coverings over the top. Allow 24 hours minimum. Longer cure times may be experienced in colder temperatures or conditions with poor air circulation. Once cured and a check of the membrane is made, the licensed applicator will sign off stage two.

The third stage

involves the applicator confirming the "Flexi-Seal Licensed Waterproofing System" is now ready for tile or floor/wall coverings. This is confirmed by a signature to the guarantee, and evidence of the "Flexi-Seal" approval and guarantee stencil on the site of installation.

NB: For walls and floors with hydrostatic water problems, "Flexi-Seal Positive Pressure Coat" is used, prior to application of "Flexi-Seal 2 Part Liquid Membrane".



Flexi-Seal Nail n' Screw Patch



Sikasil C Bondbreaker



Flexi-Seal Mega Prime



Flexi-Seal Reinforcing Bandage



Flexi-Seal Sealer Primer



Flexi-Seal 2 Part Liquid Membrane



Flexi-Seal Guarantee Stencil

FAQ...

What happens if the membrane is damaged prior to tile installation?

Do not attempt to repair it yourself. This would void any guarantee. Please call the licensed applicator who installed your system for them to make any repairs.

Are the products used in the "Flexi-Seal Waterproofing System" safe and non toxic?

Yes. Unlike some membrane systems utilising epoxies or fibreglass etc the Flexi-Seal system contains no dangerous solvents or hydrocarbon. It is a water based system with very little odour.

Is the system expensive?

No. When you compare the "Flexi-Seal Licensed Waterproofing System" against other systems and the peace of mind that your shower or deck won't leak, it is very affordable.

What adhesives should we use when installing tiles onto "Flexi-Seal"?

As part of the BRANZ Appraisal, tile adhesive shear testing was conducted.

Your local licensed applicator for "Flexi-Seal" will recommend you use "Flexi Wall 'n Floor 2 Part Adhesive" on all exterior deck areas. This will offer ultimate flexibility. On interior floors use "Deltaflex" and on interior walls use "Flexibond". Your licensed

applicator will advise where these recommended adhesives can be purchased from. **NB:** Any alternative adhesives used beyond the recommendation may void the warranty.

Why can't I use a One Pot dispersion adhesive?

This is not recommended on waterproofing or in wet areas. Dispersion adhesives rely on a water loss curing mechanism and are re-emulsifiable.

I have a concrete floor without polythene underneath, and moisture is coming up through it. Will Flexi-Seal stop this?

Yes. As with walls with hydrostatic water pressure problems, "Flexi-Seal Positive Pressure Coat" is used in conjunction with the standard "Flexi-Seal Waterproofing System".

I want to waterproof an exterior wall and glue stone to the waterproofing. What is the recommendation?

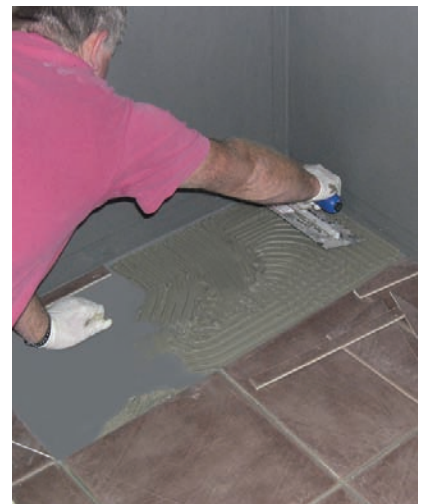
Flexi-Seal is not BRANZ appraised for this type of application. The cohesive strength of any membrane will always be weaker than the substrate itself, and therefore the allowable weight of stone per square metre is severely reduced. Consult your local licensed applicator for advice, prior to carrying out this type of application.



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SPECIFY WITH CONFIDENCE

*BRANZ Appraisal Certificate 474 (2005)
Internal wet area membrane.*

*BRANZ Appraisal Certificate 475 (2005)
External waterproofing membrane.*



When tiling onto the "Flexi-Seal Waterproofing Membrane", use adhesives as recommended by your local licensed applicator.

For performance data please view specific data sheets relating to the products used in the "Flexi-Seal Licensed Waterproofing System". These can be viewed at www.flexiseal.co.nz as well as the BRANZ appraisals and other specifications.