

DATA SHEET

Description	duroFIX® is a premium grade ceramic tile adhesive designed for use in high performance applications on walls and floors for internal and exterior areas. duroFIX® is a polymer modified cement based tile adhesive that displays exceptional bonding properties, excellent water resistance, enhanced impact noise reduction and flexibility to accommodate shrinkage movement associated with early age concrete, renders and screeds. Able to be applied over concrete that has been cured for a minimum of 7 days and screeds/renders cured for a minimum of 16 hours.
Features & benefits	<ul style="list-style-type: none">• Suitable for bonding a variety of tile types.• Flexible for structural sheeting floors and walls. Also accommodates limited building movement up to 1mm.• Quick drying properties, enabling foot traffic over surfaces after 12 hours.• Ability to use over early age concrete and mortars, avoiding delays of waiting for full curing periods.• Compatible and guaranteed over the duro membrane™ range (refer to individual product specifications).
Application	duroFIX® is suitable for residential, commercial and industrial applications.
Tiling uses	<ul style="list-style-type: none">• Wet area walls and floors, including shower areas.• Balconies, decks and podium slabs.• Suspended concrete slab floors.• New concrete floors (cured minimum 7 days).• Substrates subject to thermal and shrinkage movement.• Suitable for bonding a range of tiles including terracotta, monocatura, porcelain, quarry tiles and general ceramic surfaces. Not suitable for "green" marble.
Substrates	<p>Substrates suitable for bonding duroFIX® over include:</p> <ul style="list-style-type: none">• Concrete and screed/render mortars.• Cement sheeting.• Plasterboard.• Aerated concrete.• Timber sheeting. Not recommended for tiling directly over any exterior timber surfaces or timber exposed to moisture.• duro membranes™, primers, slurries. <p>Before using over existing paints, membranes, coatings or other surface finishes contact technical department of Waterproofing Systems for correct advice on surface preparation and suitability.</p>
Surface preparation	<p>Surfaces must be prepared thoroughly before commencing application. All substrates must be structurally sound, stable, dry, and clean. Rough surfaces are to be evened or filled first (refer to duroPRIME Sand Cement Primer). Building surfaces must be constructed to manufacturer's recommendations and relevant building standards in force at time of membrane application. All surfaces are to be free of sharp protruding surfaces, loose material, de-bonded coatings, curing membranes/agents, release agents, wax residues, foreign particles, laitance, algae and moss, grime, oils, animal fats or grease remains.</p> <p>Structurally unsound layers and surface contaminants are to be mechanically removed by abrasive blasting, blast tracking, grinding or equivalent methods.</p>
Priming	<ul style="list-style-type: none">• For application directly over duro membranes™, priming is not required. Dried membrane surfaces must be clean, dry and free of dust and foreign particles.• duroPRIME – for general porous building surfaces or duro membranes™ that have been exposed for greater than 72 hours.• duroPRIME Sand Cement Primer - for extremely porous surfaces, non porous surfaces, sheet membrane surfaces, and asphalt/bitumen.

Mixing	<ol style="list-style-type: none"> 1. Mix approx 4-5 litres of clean water per 20kg of duroFIX®. 2. Using an electric stirrer at a slow-medium speed, ensure powder is completely dispersed into water forming a trowelable viscosity. Mix enough product to be used within 2 hours at normal ambient conditions (20°C and 50% relative humidity). 3. Allow product to settle for approximately 5 minutes then lightly re-stir before use. If product is left undisturbed in external conditions it may thicken, therefore it is recommended to regularly stir during use. 4. Coverage of 20kg bag is 15m² with a 6mm notch trowel, and 9m² with a 10mm notch trowel.
Application of Tiles	<ul style="list-style-type: none"> • Before fixing tiles, ensure the back of tiles are clean and free from dust. • Select an appropriate notched trowel for selected tile size and ensure 100% coverage of adhesive is achieved. Once tile is placed an even adhesive bed should be formed between substrate and tile back. This is particularly important on membrane surfaces, preventing empty voids between the sealed surface and tile backs. • Spread the adhesive evenly over the substrate and bed tiles while adhesive is in a wet state. Press and slide the tile at right angles to the notched line of the adhesive to ensure 100% coverage to tile backs. It is recommended to randomly lift tiles during the application to ensure no voids remain between the tile back and substrate. For large tiles with deep rear keys or patterns (e.g. quarry tiles, terracotta tiles etc) it is recommended to "butter" adhesive to the backs of the tile before placing into the notched pattern of adhesive. • DO NOT allow tile adhesive to skin prior to bedding tiles as this will compromise correct adhesion. • Tile type and size will determine bed thickness of adhesive. duroFIX® should not be applied at a bed thickness of greater than 10mm or less than 1.5mm. • Remove surplus adhesive from tile surface and joints before the adhesive sets. • All tiling practices must comply with AS 3958.1:1991.
Drying Time	<p>Approximately 12 hours in normal ambient conditions (20°C and 50% relative humidity). Allow longer for: dense tiles; over waterproof membranes and sealed surfaces, humid conditions and cold temperatures.</p>
Storage conditions	<ul style="list-style-type: none"> • Best stored at room temperature in a dry area. • Avoid cold freezing conditions and off concrete floors. • Do not store in cool, humid or outdoor areas. • Shelf life is 12 months in original unopened bag when the above conditions are met.
Packaging	20kg bag
Precautions	<ul style="list-style-type: none"> • Floor areas must have appropriate graded falls. Not suitable on floor areas subjected to ponding water. • Not suitable for immersed areas such as pools, water features etc. For immersed applications use C-Bond tile adhesive. • Not suitable to bond directly over metals, fibreglass or glazed surfaces. • Not suitable for fixing "green" marble. • When applying over timber floor sheeting, substrates must be fixed both by adhesive and mechanical (screwed) means. Nail fixing is not satisfactory. • Material Safety Data sheet available on request. • For further information about this product contact technical department of Waterproofing Systems.
Clean up	<p>While in a fresh or damp state, duroFIX® can be cleaned off with water, damp sponge or wiper. Once adhesive is dried, residue will need to be removed mechanically.</p>



Technical data

Appearance	Off white / light grey powder
Bulk / Density	1.25kg / Litre

At 20° C and 50% relative humidity

Open Time	30 minutes
Pot Life	2 hours
Setting Time	12 hours
Sagging	None
Adjustability Time	45 minutes
Tensile Adhesion Strength	0.7 MPa
After Heat Ageing	0.7 MPa
After Freeze Thaw Cycle	0.6 MPa

Contact Details

Waterproofing Systems Ltd
 Technical Enquiries - John Stallard
 Telephone: +64 6 357 9148
 Facsimile: +64 6 357 9148
 Email: john@waterproofing.co.nz
 Website: www.waterproofing.co.nz