

Durotile Flex

HIGH GRADE NON SLUMP FLEXIBLE TILE ADHESIVE

DUROTILE FLEX is non-slump, rubber modified, off white cement based tile adhesive with specially formulated PFR technology designed to give superior shear strength.

What makes DUROTILE FLEX so unique is that it will accommodate shrinkage movement associated with early age concrete and screeds. It can be used over concrete that is at least 7 days old and on screeds and renders after 16 hours. It is flexible enough to withstand crack openings of up to 0.9mm.



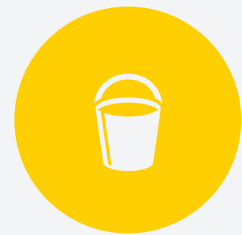
FEATURES

- ◆ High performance
- ◆ Flexible, Non Slump
- ◆ Extended Open Time
- ◆ Adhesive meets C2S1TE classifications
- ◆ Low VOC content which easily meets Green Building Council of Australia Green Star IEQ-13 requirements.



APPLICATIONS

- ◆ Suitable for wall and floor applications and tile on tile application.
- ◆ Ideal for bonding a large range of tile types including ceramic, fully vitrified, porcelain, natural stone, terrazzo, glass and mosaics.
- ◆ Ideal for application of tiles over Duroproof modified polyurethane waterproofing membrane.



PACKAGING

- ◆ 20kg bag

TECHNICAL INFORMATION

Colour	Off White
Mixing Ratio	Approx. 6L water/20kg powder
Application Properties	at 23°C and 50% RH
Open Time	25 minutes
Adjustment time	40 minutes
Grouting time	8 hours
Ready for use	24 hours
Pot life	2 hours
Under floor heating	Yes
Mechanical Properties (AS 4992)	
Tensile Adhesion Strength After 28 days dry	1.9MPa
Water immersion	1.2MPa
Heat	1.2MPa
Freeze Thaw	1.2MPa
Specific Gravity	1.4kg per litre
Classification	C2S1TE

DESIGNED FOR FIXING

Suitable for wall and floor applications and internal and external use.

Ideal for bonding a large range of tile types including ceramic, fully vitrified, porcelain, natural stone, terrazzo, glass and mosaics.

Ideal for application of tiles over **Duroproof** modified polyurethane waterproofing membrane.

SUBSTRATES

Concrete, renders, screeds, Duroproof waterproofing membrane, blockwork, gyprock, plasterboard and fibre cement surfaces.

PREPARATION

Ensure surfaces are sound and free from movement, oil, grease, wax, dust, any curing and release agents and any other barrier materials. Ensure surface to be tiled over is strong enough to support the weight of the tiles being fixed. Surface needs to be dry before tiling, with no residue or permanent damp.

CONCRETE & CEMENT RENDER SCREEDS

Ensure all concrete slabs are allowed to cure for at least 7 days in accordance with AS 3958.1-2007 and have a wood float finish. The maximum variation in the plane of the concrete must not exceed 5mm in 3 meters for floors and 4mm in 2 meters for walls. Steel troweled finished concrete surfaces must be mechanically abraded or primed first using Duro Opti Primer.

All render surfaces must be allowed to cure for at least 24 hrs. prior to commencing tiling

PLASTER BOARD / FIBRE CEMENT SHEET WALL AND FLOOR

Plasterboard and Fibre cement sheeting must be the correct sheeting for the installation and be used and installed in accordance to the manufacturer's written specifications. The surface must be primed with DuroPrime.

EXISTING TILES

Tiles need to be sound and clean Remove all cracked, drummy or otherwise unsound tiles and repair appropriately. Prime surfaces using Duro Opti Primer. Contact Durotech Products before commencing if in doubt about required surface preparation.

EXPANSION JOINTS

Must be installed in accordance with Australian Standard AS3958.1-2007.

Movement Joints must be placed from the substrate through the tile bed up to the face of the tile. Movement joints must be clean and free from dirt, adhesive droppings and tile spacers. They must be a minimum of 6mm wide and no wider than 10mm. they should be filled with a suitable elastomeric sealant.

MOVEMENT JOINTS MUST BE PLACED:

Every 4.5 metres externally and every 6 metres internally. Around the perimeter of the floor; over existing joints in the substrate.

Where 2 different materials meet (e.g. wood and concrete).

Around fixtures in the substrate (e.g. columns).

Internal vertical corners; changes in direction of the tiling at changes in storey height.

Over existing movement joints.

PRIMING

All porous surfaces should be primed using Duro prime (refer to Duro Prime data sheet for correct application) non porous surfaces should be primed using Duro Opti Primer (refer to Duro Opti Primer data sheet for correct

MIXING

20kg of Durotile Flex powder requires 6 litres of water

Always add powder to liquid

Allow to stand for 3min and then re-stir. Adhesive is now ready to use.

APPLICATION

Once the substrate has been correctly prepared then apply the adhesive onto surface.

As a general guide use a minimum 10mm notched trowel for floor tiles and a minimum 6mm notched trowel for wall tiles. Durotile Flex can be applied at a bed thickness between 2 to 10mm. Tiles must be firmly pressed into the freshly troweled adhesive. Slide the tile at a right angle to the notch pattern to ensure 100% coverage is achieved.

For tiles which are uneven or have lugs on the back of the tile may need to be buttered with adhesive as well.

GROUTING

Commence grouting when tile adhesive has hardened sufficiently so that the tiles will not be dislodged. Duro Grout should be mixed with Duro Mix Additive as per grout packaging instructions.

COVERAGE

A 20kg bag of Durotile Flex will cover approximately 12m² on walls using a 6mm notched trowel and 7m² on floors using a 10mm notched trowel. The coverage will vary depending on substrate condition, tile type and application technique.

SHELF LIFE

A bag of Durotile Flex, when kept in a cool, dry environment, and stored above ground level, will have a shelf life of 12 months.

CLEAN UP

Excess adhesive should be removed using a clean damp cloth while still wet.
Tools and other equipment can be cleaned up using water

PRECAUTIONS

Durotile Flex being cement based is alkaline in nature, and therefore may cause dermatitis. It is recommended that applicators wear PVC gloves or similar and safety goggles

Do not apply Durotile Flex in temperatures below 5°C and above 35°C.

Durotile Flex cannot be used for fixing tiles in permanently immersed situations like swimming pools.

Durotile Flex has an open time of 25 minutes and an adjustment time of 40 minutes. Please be aware of site conditions and only spread enough adhesive so that tiles can be fixed while the adhesive is still wet.

For applications or situations not mentioned in this data sheet please contact Durotech Products Pty Ltd.

For a full MSDS for Durotile Flex please contact Durotech Products Pty Ltd.



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The information provided in this data sheet is correct at the time of printing (albeit is subject to change at any time) and is intended to give a simple description of the product and its capabilities. In practice, the substrate, intended surface to be treated and environmental conditions vary widely, making it essential for the user to determine the products suitability for a particular application and to ensure that the product is not used beyond its physical limitations. If in doubt contact the manufacturer. The product will perform as described herein provided it is applied in accordance with the manufacturer's instructions as stated in this data sheet and provided that the building and installation is structurally sound and the application is carried out competently. Durotech terms and conditions of sale apply.