



# Dura-Fix Mastic

COMMERCIAL GRADE TILE ADHESIVE FOR CONCRETE, RENDERS & SCREEDED FLOORS

## DESCRIPTION

**Dura-Fix Mastic** is non-slump, white, cement-based tile adhesive specially designed for large format tiles. What makes **Dura-Fix Mastic** so unique is that it will not slump with tiles on the wall or the floor. **Dura-Fix Mastic** accommodates shrinkage movement associated with early age concrete and screeds.

## USES

- Bonding ceramic tiles
- Bonding fully vitrified tiles
- Bonding porcelain tiles
- Bonding natural stone
- Bonding terrazzo tiles
- Bonding glass tiles
- Bonding mosaics

## SUITABLE SURFACES

- Concrete
- Render
- Screeded
- Selected Duram Membranes
  - **Azcothane / Azcothane Reo**
  - **Crystoflex**
  - **Durabit EF / Durabit Reo**

## BENEFITS AND ADVANTAGES

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

## SPECIFICATION

The information contained in this product data sheet is typical but does not constitute a full specification as conditions and specific requirements may vary from project to project. The instructions should be considered as a minimum requirement but the applicator or contractor must use their skill, knowledge and experience to carry out additional works as may be necessary to meet the requirements of the project. Specification for specific projects should be sought from the Company in writing.

## LIMITATIONS

- Do not apply **Dura-Fix Mastic** in temperatures below 5°C and above 35°C.
- **Dura-Fix Mastic** has an open time of 35 minutes and an adjustment time of 60 minutes. Please be aware of site conditions and only spread enough adhesive so that tiles can be fixed while the adhesive is still wet.
- Do not set tiles into “skinned” adhesive. Remove any skinned adhesive and reapply fresh wet material.
- **Dura-Fix Mastic** is not suitable for direct stick to timber.
- Not suitable for heavy stone on walls.
- Not suitable for framed floors with spans longer than 5m.
- Ensure that exterior tiling or tiling in wet areas has suitable falls to avoid ponding.
- Protect tiling from water, rain and bad weather until at least 24 hours after grouting.

## SURFACE PREPARATION

Ensure surfaces are sound and free from movement, oil, grease, wax, dust and 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.

### SUBSTRATE PREPARATION FOR 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. All render surfaces must be allowed to cure for at least 24 hours prior to commencing tiling.

### SUBSTRATE PREPARATION FOR ALL PLASTER BOARD/FIBRE CEMENT SHEET WALL AND FLOOR

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 **Duram WB Primer**. Plasterboard sheets 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 **Duram WB Primer**.

### SURFACE PREPARATION FOR TIMBER SURFACES

Before tiling over timber contact Duram for advice regarding required preparation. Not all timber can have tiles directly bonded. If unsure install a suitable ceramic tile underlay according to the manufacturer's printed directions.

## PRIMING

**Dura-Fix Mastic** requires the use of **Duram WB Primer**. For any Non-Porous surfaces contact your local Duram Representative.

## DETAILING PREPARATION

### EXPANSION AND MOVEMENT 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 such as **Resiflex FC**. 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.
  - As recommended by the sheet manufacturer.
  - See special instructions for exterior framed decks

## APPLICATION

### MIXING

- 20kg of **Dura-Fix Mastic** powder requires 4.5 litres of water.
- Always add powder to liquid while mixing. Mix until lump free and uniform.
- Allow to stand for 5min and then re-stir.
- Adhesive is now ready to use.

### COATING APPLICATION

- All tiling must be carried out in accordance with AS3958-2007 – A Guide to Tiling.
- Apply the adhesive onto the surface using the correct square notched trowel. Use a 6mm trowel for wall tiles up to 200x200mm. Use a 10mm trowel for tiles up to 300x 300mm. For tiles 300x300mm and larger use a 12mm trowel. Tiles that are 400x400mm and over need to be back buttered.
- Use the flat side of the trowel to apply adhesive to the back of the tile about 1-2mm thick.

- **Dura-Fix Mastic** can be applied at a bed minimum thickness between 2 to 10mm for walls and 3 to 10mm for floors.
- Tiles must be firmly pressed in the freshly troweled adhesive, slide the tile at a right angle to the notch pattern to ensure 100% coverage is achieved and so there are no air gaps behind the tile.
- Tiles that are uneven or have lugs on the back to be buttered with adhesive as well.

## GROUTING

- Commence grouting after about 8-16 hours when tile adhesive has hardened sufficiently so that the tiles will not be dislodged. This may take longer in cool weather.

## COVERAGE

A 20kg bag of **Dura-Fix Mastic** will cover approximately 12m<sup>2</sup> on walls using a 6mm notched trowel and 7m<sup>2</sup> on floors using a 10mm notched trowel. The coverage will vary depending on substrate condition, tile type and application technique.

## DRYING AND CURING

- Open Time - 35 minutes
- Adjustment Time - 60 minutes
- Grouting Time - 8 hours
- Ready for Use - 24 hours
- Pot Life - 2 hour
- Suitable for Under Floor Heating - Yes

## COLOURS

White

## CLEAN UP

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

## STORAGE AND PACKAGEING

Store above ground level in original, undamaged packaging in a cool, dry, protected location. 12 months when stored as recommended in original unopened packaging.

## SAFETY AND PRECAUTIONS

The Safety Data Sheet (SDS) must be read and understood prior to use

## CONDITIONS OF USE AND DISCLAIMER

The information contained in this TDS is given in good faith based upon our current knowledge and does not imply warranty, express or implied. The information is provided and the product is sold on the basis that the product is used for its intended purpose and is used in a proper workmanlike manner in accordance with the instructions of the TDS in suitable and safe working conditions. Under no circumstances will the Company be liable for loss, consequential or otherwise, arising from the use of the product.

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