



# WALL & FLOOR TILE ADHESIVE



**DUNLOP® WALL AND FLOOR TILE ADHESIVE** is specially formulated to suit most tiles including ceramic, porcelain, mosaics, fully vitrified and natural stone (excluding moisture sensitive stone). It is suitable for use over many different surfaces including timber (indoors) as well as fibre cement sheets, concrete and plasterboard where surfaces are subject to thermal and shrinkage movement. The adhesive can be used indoors (including showers) and outdoors provided there is no standing water and there is a sufficient fall achieved in installation for water run off.

## SURFACE PREPARATION

Surfaces must be consistently flat and firmly fixed. Clean off dust, oil, grease and all loose contaminating materials or coatings. Ensure surfaces are dry, with no residue or permanent dampness. Prime porous surfaces (e.g fibre-cement sheet, cement render) and timber floors with DUNLOP® PRIMER AND ADDITIVE beforehand and allow to dry.

### Autoclaved Aerated Concrete

Remove loose particles from the surface, apply two coats of DUNLOP® PRIMER AND ADDITIVE and allow to dry.

### Timber Floors

Timber floor must be structurally sound, clean and free from abnormal deflection. Maximum load deflection must not exceed 1/360 of the span. Timber floors must have good under-floor ventilation and ensure under-floor moisture levels are stable during the life of the flooring system. Free water sources must not be allowed under timber floors as dimensional stability will be compromised.

All timber boards (new and old), including particleboard and tongued and grooved boards, must be sanded with 40 grit sand paper (or 24 grit if timber is coated/stained) to the original timber so as to achieve a suitable surface profile and to remove surface contaminants. Prime with DUNLOP® PRIMER AND ADDITIVE and allow to dry. For sheeted material eg. pineboard flooring, tape joints with PVC ducting tape. For tongued and grooved timber, apply tape over joints that are 2-3mm wide. Where these joints make up over 15% of the floor, or where the joints are greater than 3mm, contact the DUNLOP Toll Free Hotline on 1800 222 841.

### Concrete Floors

Should have a wood float finish. Allow at least 4 weeks for concrete to cure prior to tiling. Screeds must be at least 7 days old. The surface should be true and level and pitched to drains where required. Remove any concrete sealers or curing compounds from the surface. Steel trowel finished concrete should be roughened mechanically to remove laitance and provide a good key for tiling.

### Cement Render Walls

Render to consist of one part cement to three or four parts sand. Leave the render with a wood float finish to establish a mechanical key. Allow render at least 7 days to cure prior to tiling. It should be approximately 10mm in thickness. Prime dry porous render with DUNLOP® PRIMER AND ADDITIVE and allow to dry.

### Fibre-Cement Sheet & Plasterboard

Fix sheets according to manufacturer's instructions and prime fibre-cement sheets with DUNLOP® PRIMER & ADDITIVE and allow to dry. It is not necessary to prime plasterboard, however base jointing compound must be primed with DUNLOP® PRIMER & ADDITIVE.

### Compressed Fibre-Cement Sheets

All surfaces must be dry, clean and free from dust and contaminating materials. Prime with DUNLOP® PRIMER & ADDITIVE and allow to dry. Joints should be taped with PVC duct tape prior to tiling.

### Existing Tiles

Existing tiles must be roughened mechanically to remove 80% of the glaze. Prime the exposed body of the tile with DUNLOP® PRIMER & ADDITIVE and allow to dry.

### Painted Surfaces

Oil-based paint should be roughened mechanically and loose flaking paint should be removed. Ensure the paint is suitable for tiling over. Completely remove water-based paints. Do not use paint stripper or solvents. Allow surface to dry after cleaning.

### Metal Surfaces

Clean metal surface and prime with appropriate metal primer.

### Existing Vinyl Tiles

This applies only to solid vinyl flooring which must be well bonded to the substrate, do not tile over thin vinyl flooring that has a foam backing. Clean the existing vinyl with a neutral stripping solution to remove wax and dirt. Rinse with clean water and allow to dry. Lightly sand the surface with a floor sanding machine and vacuum the dust.

## MIXING

The mixed material is usable for up to 2.5 hours, depending on temperature and humidity.

1. Use approximately 330ml of water with 1kg of the powder.
2. Add powder to clean water in a clean container and mix to a thick creamy consistency using a mechanical stirrer or spatula.
3. Allow to stand for 10 minutes and re-stir before use.

## APPLICATION

1. Apply the adhesive to the surface with an appropriate notch trowel: as a general guide use a 6mm notch trowel to achieve a 1mm bed thickness for walls; 10mm notch to achieve a 1.5mm bed thickness for concrete floors; 12mm notch trowel to achieve a 2mm bed thickness for timber floors.  
If backs of tiles are dusty, clean with a damp sponge.
2. Spread only 1 square metre at a time and ensure a skin has not developed on the adhesive before bedding tiles.



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- Press and slide the tile into position ensuring the whole of the back of the tile is in good contact with the adhesive.
- Use tile spacers if desired to ensure even spacing.
- Remove any surplus adhesive on face of the tile or between joints before it sets.
- Adjustment of tiles should be carried out within 60 minutes of laying (at 23°C and 50% relative humidity).

## COVERAGE

Coverage will vary depending on the condition of the surface being tiled and application technique.

TILE SIZE	TROWEL SIZE	COVERAGE
Up to 250x250mm	6-8mm notch	0.8m <sup>2</sup> /kg
250x250mm and over	10-12mm notch	0.5m <sup>2</sup> /kg

## DRYING TIME

Approximately 24 hours at 23°C and 50% humidity. Allow longer for dense tiles/substrates humid climates and low temperatures.

## GROUTING

Wait until the adhesive has set. This takes approximately 24 hours. Remove spacers and use DUNLOP® GROUT adding DUNLOP® PRIMER AND ADDITIVE to enhance colour, impart a degree of flexibility and reduce porosity and staining. For easier maintenance, seal with DUNLOP® GROUT SEALER.

## CLEAN UP

Clean all materials in water before they have set.

## MOVEMENT JOINTS

Movement joints must be in accordance with AS 3958.1:1991. As a general guide, movement joints should be incorporated at 5 metre intervals and around the perimeter of the floor. These joints must be approximately 6mm wide and kept free from adhesive and grout. Any structural movement joints must be carried through to the face of the tiling. They should be filled with a suitable flexible material such as DUNLOP® COLOURED SILICONE. For walls, incorporate movement joints at internal corners, fixtures interrupting the tile surface, at 3.5 metre intervals and storey height for external fixing.

## SHELF LIFE

A shelf life of 12 months is expected when stored in a dry place in original unopened container at 30°C.

## PACKAGING

2kg, 8kg, 15kg

## CAUTION

Do not use in immersed conditions such as swimming pools. Do not use in areas subject to water ponding. Do not use in heavy foot traffic situations (shopping centres, public areas). Keep out of reach of children. Use gloves to prevent skin irritation. Avoid inhaling dust by using a dust mask. Wash immediately with plenty of water if material enters eyes. MSDS available on request.

## TECHNICAL DATA

### Characteristic of Product:

Colour: Grey  
Bulk Density: 0.95

### Characteristic of Mix

Mixing Ratio: 3kg:1L (powder to water)  
Mix S.G: 1.25

### Application Properties (at 23°C and 50% relative humidity)

Open Time: 60 minutes  
Pot Life: 2.5 hours  
Setting Time: 24 hours  
Application temperature: 5-35°C

### Mechanical Properties:

	Draft ISO 13007.1	
	Achieved	Required
Tensile Adhesion Strength	0.7 Mpa	≥ 0.5 Mpa
Tensile adhesion after water immersion	0.6 Mpa	≥ 0.5 Mpa
Tensile adhesion after heat aging	0.7 Mpa	≥ 0.5 Mpa
Tensile adhesion after Freeze & Thaw cycle	0.6 Mpa	≥ 0.5 Mpa
Extended open time Tensile adhesion: (after not less than 30 min)	0.8 Mpa	≥ 0.5 Mpa
<i>Transverse deformation:</i>	14.4mm over 200mm span	
Tensile adhesion Strength on timber	0.6 Mpa	
Tensile Adhesion Strength on existing tile	0.6 Mpa	
Shelter Butynol Sheet	0.5 Mpa	
Tensile Adhesion Strength Off-form concrete	0.8 Mpa	

## DUNLOP GUARANTEE

Product is guaranteed for 10 years when installed to manufacturers instructions. Manufactured under a quality system certified as complying with ISO 9001 by an accredited certification body. Material Safety Data Sheets are available upon request.

## USER NOTES

The technical details and recommendations contained in this data sheet are given in good faith and represent the best of our knowledge and experience at the time of printing. It is the responsibility of the user to ensure that the products are used in accordance with DUNLOP product instructions and in applications for which they are intended.

Exceeds Australian Standard AS 4992.1

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