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) 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 (sheet timber)
This includes particleboard, plywood, mdf and cork, with the exception of unbonded timber such as laminated flooring or strip timber floors (e.g. cypress pine). Timber floors must be structurally sound and the maximum load deflection must not exceed 1/360 of the span. Timber floors must have good underground ventilation and underground moisture levels must be stable during the life of the flooring system. Free water sources must not be allowed under timber floors as dimensional stability will be compromised. If timber boards are clean and free of contaminants, there is no need for sanding. If timber boards are contaminated, these 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. For sheeted material (e.g. particleboard flooring, tape joints with PVC ducting tape). Vacuum clean the surface prior to priming with DUNLOP WALL & FLOOR TILE ADHESIVE.

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. Prime with DUNLOP PRIMER & ADDITIVE and allow to dry.

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.

Medium Density 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 an approximate 1.5mm bed thickness for concrete floors; 12mm notch trowel to achieve a 2.5mm 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.
3. Press and slide the tile into position. When bedding the tiles, ensure 100% coverage by pressing and sliding the tile firmly.
4. Use tile spacers if desired to ensure even spacing.
5. Remove any surplus adhesive on face of the tile or between joints before it sets.
6. Adjustment of tiles should be carried out within 60 minutes of laying (at 23°C and 50% relative humidity).

**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:**

<table>
<thead>
<tr>
<th>Property</th>
<th>Achieved</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Adhesion Strength</td>
<td>0.7 Mpa</td>
<td>≥ 0.5 Mpa</td>
</tr>
<tr>
<td>Tensile adhesion after water immersion</td>
<td>0.6 Mpa</td>
<td>≥ 0.5 Mpa</td>
</tr>
<tr>
<td>Tensile adhesion after heat aging</td>
<td>0.7 Mpa</td>
<td>≥ 0.5 Mpa</td>
</tr>
<tr>
<td>Tensile adhesion after Freeze &amp; Thaw cycle</td>
<td>0.6 Mpa</td>
<td>≥ 0.5 Mpa</td>
</tr>
<tr>
<td>Extended open time Tensile adhesion:</td>
<td>0.8 Mpa</td>
<td>≥ 0.5 Mpa (after not less than 30 min)</td>
</tr>
</tbody>
</table>

**Transverse deformation:**
14.4mm over 200mm span

**DUPLICATE 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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**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.