



# Technical Data Sheet



**PALACE SHOWER-PROOF** is an off-white ready mixed Gypsum based adhesive paste, suitable for use as a thin-bed ceramic tile adhesive and conforms to BS EN 12004 Type D, Class 1TE. It incorporates a PVA binder and is suitable for fixing all types of internal ceramic wall tiles, including mosaics, porcelain and vitrified tiles in dry & intermittently wet locations such as bathrooms, kitchens and domestic shower areas.

- **White Gypsum based adhesive for internal wall surfaces**
- **Ready Mixed thixotropic paste with high instant grab**
- **Instant non-slip with large tiles and a generous adjustability time**
- **Unique formula gives excellent adhesion to gypsum plastered walls**
- **Suitable for kitchens, bathrooms & domestic shower areas**

## Description:

**PALACE SHOWERPROOF** can be applied to gypsum plaster, plasterboards, cement fibre-board, lightweight tile Backer Boards, existing tiles, cement render, concrete block-work, and all types of well-braced tile backer boards. **PALACE SHOWERPROOF** is a unique gypsum-based formula incorporating light-weight fillers which give outstanding ease of application & non-slip properties even when fixing large format heavy duty wall tiles. **PALACE SHOWERPROOF** is suitable for fixing all types of ceramic wall tiles, including mosaics, stone, porcelain and vitrified tiles.

## Surface Preparation:

All surfaces must be clean, firm and free of dust, dirt, oil, grease and loose flaking coatings. Gypsum finishing plaster should be at least 4 to 6 weeks old, thoroughly dry and wiped clean of dust, efflorescence and loose flaking material. Highly polished (shiny) plaster surfaces should be roughened with a stiff brush, removing all loose fines. All plaster and porous masonry surfaces should be primed with **PALACE TILERS PRIMER SBR** diluted as 1 part to 3 parts with water and allowed to dry. All wood-based surfaces, (including plywood) should be over-laid with Tile Backer boards. screw fixed at 300mm centres to provide a dimensionally stable background as described in BS 5385 part 1. All boards must be level, showing no edge protrusions and be fixed in place with a 0.5 to 1mm gap to avoid expansion stresses between the boards and around the wall corners. When tiling over existing tiles ensure they are securely fixed in all areas. Thoroughly clean and dry tiled, or non-porous surfaces and slightly score out joints to provide a key.

Tiles with a surface area of less than 0.1M<sup>2</sup> but which weigh more per square metre than 70% of the background's maximum shear load capacity (see Technical Summary table) should be 100% solidly bedded between wall & tile back.

## Application Method:

**PALACE SHOWERPROOF** can be used for fixing ceramic tiles or mosaics, use a notched trowel to give a ribbed mortar bed on the substrate, into which the tiles are firmly bedded with a twist and slide action to ensure full contact. Use a 3mm x 3mm notch at 6mm centres for mosaics and thin flat backed wall tiling, a 5mm x 5mm notch at 10mm centres for general wall tiling. The position of the tiles can be adjusted up to 20 minutes after initial fixing. Open time of the exposed ribbed adhesive bed is no more than 30 minutes at 20°C. The final adhesive bed depth should ideally be in the range of 2 to 3mm and contact coverage between the tile back and the adhesive bed should be no less than 80% of the tile area.

Ensure all grout joints are at least 2mm, wide for tiles up to 0.1M<sup>2</sup> size (>1 600mm) and larger tiles should be fixed with a minimum joint width of 3mm, ensuring at all times the joint is free from excess adhesive residues. Ensure all adhesive residues remaining on the tile face are wiped clean with a moist cloth as fixing proceeds and rake out any excess adhesive still visible from within the grout joints.

**PALACE SHOWERPROOF** should not be applied onto walls affected by penetrating damp; in areas of persistently high humidity or be fixed when the room temperature is below 5°C or likely to be that low in the 24 hours after fixing. When fixing porcelain tiles the drying time of the adhesive will be significantly extended therefore grouting should be delayed until the adhesive is fully dry, additionally any porcelain tiles of size greater than 0.1M<sup>2</sup> or with one side > 600mm should ideally be fixed using a cement-based adhesive. Additionally, all other types of large format ceramic tile, i.e. those with dimensions of 300mm x 400mm or more, will also significantly prolong the drying time of this adhesive and a cement-based alternative is recommended in such circumstances.

EN ISO 14001



EMS 85788

EN ISO 9001



FM 01010

EN ISO 18001



OHS 596309

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## Coverage:

When fixing on a level, even surface using a 4mm notched mosaic trowel, **PALACE SHOWERPROOF** will cover at a rate of about 1.6kg per sq.mtr, however for heavy-duty, studded wall tiles, the product will cover at about 2.5 kg per sq. mtr.

## Grouting:

Grouting may proceed as soon as the tile bed is sufficiently firm, which depending upon site conditions can be from 24 hours after fixing on porous surfaces such as plaster or up to 7 days where tiles have been fixed to an impermeable surface such as existing tiles. In areas subject to intermittent wetting, such as domestic showers, always use a waterproof grout such as **PALACE COLOUR-LOCK GROUT** or **PALACE ANTI-MOULD GROUT**.

## Storage & Packaging:

**PALACE SHOWERPROOF** is supplied in re-sealable buckets and has a storage life of not less than 12 months if stored in dry, un-opened conditions. Should further technical information be required, contact the Palace Technical helpline on 0151 486 6101.

## Health & Safety:

Always ensure that appropriate PPE & overalls are worn when applying this product. Wash hands after use and launder stained clothing. Do not consume food when working and keep children & animals away from any possible risk of contact. A complete PALACE material safety data sheet is available on request or online at [www.palacechemicals.co.uk](http://www.palacechemicals.co.uk)

## Quality & Environment:

All Palace Chemicals products are manufactured under a BSI accredited ISO 9001:2015 Quality Management System, along with an ISO 14001 Environmental Management system continually working to reduce our carbon footprint

## Precautions:

Not suitable for exterior use or fully immersed areas (e.g. swimming pools) and commercial “wet” areas including power showers. Ideally adhesive bed depths should not exceed 3mm and should never be spot fixed.

## Disclaimer:

The information provided by this Technical data sheet is given in good faith and is to the best of our current knowledge true and accurate, however it is given without guarantee, as conditions of use and workmanship involved are both beyond our control. All information supplied is subject to the company's terms and conditions of sale, copies of which are available.

## Technical summary:

<b>Unit size:</b>	15kg & 22kg
<b>Colour:</b>	Dries White
<b>Mean bed depth:</b>	3mm
<b>Time till ready to grout:</b>	24 hours*
<b>Ribbed bed open time:</b>	30 minutes*
<b>Initial Set time:</b>	3 hours*
<b>Application Temperatures:</b>	5 – 25°C

- \* Dependent on temperature substrate and site conditions

## Wall Tiles – substrate load limits:

Wall substrates should be strong enough to support the weight of the ceramic tile or natural stone to be installed and the weight of the associated adhesive bed. The maximum weight restrictions for wall substrates are given below:

Description	Kg/M2
Gypsum plaster ( <i>sealed with Tilers Primer</i> )	20.0
Gypsum plasterboard (12.5 mm)	32.0
Cement / sand rendering & Concrete	No limit
Lightweight foam-cored tile backer boards	60.0
Glass reinforced cement-based boards	50.0
Gypsum fibreboards	40.0
Other rigid tile backer boards	#

- # - Consult the manufacturer

## Approved receiving surfaces:

- ✓ Concrete
- ✓ Sand/cement render
- ✓ Tile backer boards
- ✓ Gypsum finishing plaster
- ✓ Plasterboard
- ✓ Existing tiles\*\*
- ✓ Concrete brick/block

\*\*Must be securely fixed

## Performance test data:

EN 12004 – D1TE Normal dispersion adhesive with reduced slip & extended open time for tiling	
Initial Shear adhesion strength	> 1.0 N/mm2
Shear adhesion strength after heat ageing	> 1.0 N/mm2
Open Time: tensile adhesion strength (30min)	> 0.5 N/mm2
Reduced Slip	< 0.5mm
Reaction to Fire	NPD

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