



# TECHNICAL DATA SHEET



Ver 03 - PALMG 01.07.21

# MASTER-GRIP

## PORCELAIN & CERAMIC TILE ADHESIVE

- BRILLIANT WHITE READY TO USE ADHESIVE FOR WET AREAS INCLUDING POWER SHOWERS
- WATERPROOF ADHESIVE WITH ENHANCED QUICK-DRYING PROPERTIES
- KEVLAR FIBRE REINFORCED BOND STRENGTH IMPROVING VIBRATION & MOVEMENT TOLERANCE
- EXCELLENT WET INITIAL SURFACE GRAB REDUCES NEED FOR A PRIMER ON SEMI-POROUS SUBSTRATES
- SUITABLE FOR ALL DOMESTIC & COMMERCIAL KITCHEN, BATH & SHOWER INSTALLATIONS



### TECHNICAL SUMMARY

UNIT SIZES	15kg
COLOUR	Brilliant White
MEAN BED DEPTH	3mm
TIME UNTIL READY TO GROUT	24 hours*
RIBBED BED OPEN TIME	30 minutes*
INITIAL SET TIME	24 hours*
APPLICATION TEMPERATURES	5 - 35°C

\* Dependent on temperature of substrate and site conditions

### PALACE ANTI-MOULD GROUT

Is a brilliant white ready mixed adhesive paste, for use as a thin-bed waterproof ceramic wall tile adhesive & narrow joint grouting compound, which conforms to BS 5980 Type 2 Class AA (BS EN 12004 Type D, Class 2TE).

SUPER SMOOTH ADHESIVE

DEMONSTRATES EXCELLENT INITIAL GRAB



**PALACE CHEMICALS LTD**  
 SPEKE HALL INDUSTRIAL ESTATE  
 SPEKE LIVERPOOL L24 1YA  
 TEL: 0151 486 6101 - FAX: 0151 448 1982  
 E-MAIL: SALES@PALACECHEMICALS.CO.UK

# MASTER-GRIP

## Porcelain & Ceramic Tile Adhesive



### DESCRIPTION

**PALACE MASTER-GRIP** is a brilliant white, ready mixed, fibre-reinforced ceramic tile adhesive with enhanced polymer technology which imparts a quicker drying rate and therefore gives improved early bond strength development, even when used with large format tiles. It can reach more than 50% higher 24-hour strength than equivalent waterproof ready mixed adhesives. **PALACE MASTER-GRIP's** enhanced-drying polymer technology gives a bond with excellent water resistance and & vibration tolerance is further boosted by KEVLAR type fibre reinforcement, whilst its brilliant white colour makes it ideal for fixing natural stone, mosaics & glass tiles in bathrooms, showers, kitchens and frequently wet indoor areas.

### 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 water-resistant Tile Backer boards. Screw fixed at 300mm centres to provide a dimensionally stable background and if in frequently wet shower areas they should also be treated with **PALACE WET-ROOM** tanking system. 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, especially in frequently wet shower areas.

### APPLICATION METHOD

**PALACE MASTER-GRIP** 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 75% of the tile area. Ensure all grout joints are at least 2mm wide for tiles up to (0.1M<sup>2</sup> or with one side > 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 MASTER-GRIP** should not be applied 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 strongly recommended in such circumstances.

### PRECAUTIONS

All wall tile fixing should be carried out in accordance with BS 5385 – The Code of practice for the installation of Ceramic & Stone tiles and follow the recommendations to ensure movement joints are incorporated within the wall tiling plan to relieve any surface stress build up over large wall areas at the perimeters and over existing substrate joints. This tile adhesive is not suitable for exterior use in locations where full immersion is intended (e.g. swimming pools & shower floors). Always use a notched wall trowel to ensure the adhesive bed depth does not exceed 6mm and should never be spot fixed. Should further technical advice be needed, please contact the Palace Technical service department or go to [www.palacechemicals.co.uk](http://www.palacechemicals.co.uk).

### COVERAGE

When fixing on a level, even surface using a 6mm notched mosaic trowel, **PALACE MASTER-GRIP** will cover at a rate of about 2.2kg per sq.mtr, however for heavy-duty, studded wall tiles, the product will cover at about 3.0 kg per sq. mtr to a mean bed depth of 3mm.



EN ISO 14001



EMS 85788

EN ISO 9001



FM 01010

EN ISO 18001



OHS 596309

**PALACE CHEMICALS LTD**

SPEKE HALL INDUSTRIAL ESTATE

SPEKE LIVERPOOL L24 1YA

TEL: 0151 486 6101 – FAX: 0151 448 1982

E-MAIL: SALES@PALACECHEMICALS.CO.UK

# MASTER-GRIP

## Porcelain & Ceramic Tile Adhesive



### 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 frequent wetting, such as power showers, a cement-based grout such as **PALACE COLOUR-LOCK GROUT** or **PALACE ANTI-MOULD GROUT** is recommended.

### STORAGE AND PACKAGING

**PALACE MASTER-GRIP** is supplied in 15kg re-sealable buckets and has a storage life of not less than 12 months if stored in dry, un-opened conditions.

### HEALTH AND SAFETY

Always ensure that appropriate PPE & overalls are worn when applying this product. Wash hands after use and launder stained clothing. A complete PALACE material safety data sheet is available on request or online at [www.palacechemicals.co.uk](http://www.palacechemicals.co.uk)

### QUALITY AND 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.

### TECHNICAL ADVISORY SERVICE

Should more specific technical information be required, contact the Palace Technical helpline on: **0151 486 6101**.

For a Technical Specification and quantity requirements, visit our 'TilingSpecifier' on the Palace website at:

<http://www.palacechemicals.co.uk>

TECHNICAL SUMMARY	
UNIT SIZE	15kg
COLOUR	Brilliant White
MEAN BED DEPTH	3mm
TIME UNTIL READY TO GROUT	24 hours*
RIBBED BED OPEN TIME	30 minutes*
INITIAL SET TIME	24 hours*
APPLICATION TEMPERATURES	5 - 35°C

\* Dependent on temperature of 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/M <sup>2</sup>
GYPSUM PLASTER (sealed with Tilers Primer)	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

\* Tanked where necessary

\*\*Must be securely fixed & tanked where necessary



EN ISO 14001



EMS 85788

EN ISO 9001



FM 01010

EN ISO 18001



OHS 596309

**PALACE CHEMICALS LTD**

SPEKE HALL INDUSTRIAL ESTATE

SPEKE LIVERPOOL L24 1YA

TEL: 0151 486 6101 - FAX: 0151 448 1982

E-MAIL: SALES@PALACECHEMICALS.CO.UK

# MASTER-GRIP

## Porcelain & Ceramic Tile Adhesive



**PALACE CHEMICALS LTD**  
 SPEKE HALL INDUSTRIAL ESTATE  
 SPEKE LIVERPOOL L24 1YA

**EN 12004 - D2TE**

Improved dispersion adhesive with reduced slip  
 & extended open time for tiling

INITIAL SHEAR ADHESION STRENGTH	> 1.0 N/mm <sup>2</sup>
SHEAR ADHESION STRENGTH AFTER HEAT AGEING	> 1.0 N/mm <sup>2</sup>
OPEN TIME: TENSILE ADHESION STRENGTH (30MIN)	> 0.5 N/mm <sup>2</sup>
ADHESION STRENGTH AFTER WATER IMMERSION	> 0.5N/mm <sup>2</sup>
ADHESION STRENGTH AT ELEVATED TEMPERATURES	> 1.0 N/mm <sup>2</sup>
REDUCED SLIP	< 0.5mm
REACTION TO FIRE	Class NPD

### 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 on request.



EN ISO 14001



EMS 85788

EN ISO 9001



FM 01010

EN ISO 18001



OHS 596309

**PALACE CHEMICALS LTD**

SPEKE HALL INDUSTRIAL ESTATE

SPEKE LIVERPOOL L24 1YA

TEL: 0151 486 6101 - FAX: 0151 448 1982

E-MAIL: SALES@PALACECHEMICALS.CO.UK