



PALACE STONE-FIX is standard setting, lightweight, fibre-reinforced highly polymer fortified thin & thick bed tile & stone adhesive with outstanding hi-bond performance when fixing cladding & decorative stone panels on solid masonry walls, and over sound & even concrete floor surfaces. It offers the fixer a 3-hour working pot-life and allows grouting to proceed after 24 hours when it sets to a highly water-resistant resilient bond suitable for interior / exterior use and in external locations which are frequently wet. **Conforms to EN12004 C2TE**

- Lightweight, easy to mix & apply adhesive for internal & external use.**
- Reinforced with polymer & fibre to give maximum strength.**
- Can be used for thin & thick bed fixing up to 20mm deep.**
- Excellent non-slip properties for heavy duty wall cladding fixing.**
- Workable pot-life of up to 3 hours in normal weather conditions.**

Description:

PALACE STONE-FIX is a multi-purpose wall & floor high strength adhesive giving the performance needed for applications on solid masonry surfaces, both internally & externally when fixing large format & heavy-duty tile, stone, brick-slips, pre-formed panels & large format slabs where a solid deep bed application of up to 20mm helps to ensure 100% void free contact can be achieved. **PALACE STONE-FIX** is a dual-purpose (wall & floor) high-performance thick-bed adhesive designed for direct fixing to a solid concrete wall elevation, floor slabs & screeds, cement backer boards & dense masonry blockwork surfaces. Its' lightweight structured composition gives excellent non-sag performance even when high build up to 20mm, giving faster & easier installations.

Surface Preparation:

The substrate must be clean, firm and free from any surface contaminants. It must also be structurally sound and strong enough to support the expected traffic loading. **PALACE STONE-FIX** can be applied to dry or damp surfaces however moisture sensitive materials must be dry and remain dry after fixing. Worn or porous surfaces should be sealed with **PALACE TILERS' PRIMER** diluted as 1:3 part volumes with water.

PALACE STONE-FIX can be applied to fully braced Tile Backer boards over-laid onto a suitably rigid structure, & screw fixed at 300mm centres to supporting battens. Expansion joints should be planned for & carried through to the finished cladding & paving from all existing construction joint lines in the substrate. Do not cover expansion joints with this adhesive. Recently laid concrete slabs should be allowed at least 6 to 8 weeks to fully cure before slab & stone fixing can proceed. For installations using this product above 3 metres, consult local building code requirements regarding limitations and installation system specifications.

PALACE STONE-FIX is not recommended for application directly onto timber floorboards or floating plywood floors. Do not apply onto bare, un-sealed gypsum plaster or anhydrite floor screed before first priming & sealing this type surface with two coats of **PALACE TILERS PRIMER** the first diluted 1:1 with water and the second neat.

Mix Preparation:

Measure 5.0 l of clean water into a mixing bucket and slowly add the entire bag of 15kg sack of **PALACE STONE-FIX**, whilst mixing with a slow speed mechanically driven drill head paddle mixer, until a creamy smooth, slump-free consistency is reached. Allow to stand for no more than 5 minutes, remix for 1 minute then the mix is ready immediate use & apply as directed. **PALACE STONE-FIX** will remain fully workable for up to 3 hours at 20°C and then reach final set after 24 hours, after which time in good conditions it will be sufficiently well cured to permit grout application on both walls & floors.

Application Method:

For wall cladding fixing use a notched hand trowel to spread adhesive in sections of about 3 to 4 sq. metres on the wall surface (trowel size depends on substrate flatness, but a 12mm x 12mm is typical for concrete blockwork). When fixing stone cladding & pre-formed masonry veneers into position use a hand trowel to apply a thin skim coat of **PALACE STONE-FIX** to cover entire back of the stone cladding. Spread enough mortar onto the back of the skim coated stone unit sufficient to completely fill the space between it and the substrate when compressed against the surface. Press the mortar covered back of the veneer against the substrate at the desired final position. Slide the unit roughly (25 - 38 mm) diagonally into the desired final position in such a manner as to squeeze the mortar to fill the entire space between the veneer unit and the substrate, helping to achieve void-free 100% solid bed coverage between both the substrate and the cladding unit. Allow excess mortar to extrude on all sides around the veneer unit & promptly clean excess extruded mortar with trowel and spread onto the next stone cladding section to be installed. Note: Prior to installation, ensure back face of stone cladding is clean of dust, laitance, loose concrete crumbs and any excess film that could impede bond.

Do not mix or apply **PALACE STONE-FIX** when air or ground temperatures are likely to be below 5°C or greater than 35°C at any time during the first 24 hours after application.



Coverage:

When fixing on a level, even surface using a 10mm notched trowel, a 15 kg bag of **PALACE STONE-FIX** mixed with 5 litres of water will cover at a rate from 2.5kg per sq. mtr for heavy-duty, large format stone cladding & up to 4.5 kg/sq.mtr for lighter brick slips & tiles, depending on surface regularity & the adhesive bed depth required to achieve a 100% solid bed.

Grouting:

Grouting may proceed as soon as the tile bed is sufficiently firm, which for **PALACE STONE-FIX** will be after 24 hours at room temperature. This period however will be extended in cold conditions. When the adhesive is fully set, wall & floor joints can be grouted using **PALACE COLOUR-LOCK GROUT** or **PALACE ANTI-MOULD GROUT**, however on wider flooring applications, joints of up to 20mm wide can be grouted using **PALACE WIDE JOINT FLEXI FLOOR TILE GROUT**.

Storage & Packaging:

PALACE STONE-FIX is supplied in 15kg multi-ply, moisture resistant paper sacks 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.

Precautions:

During cold & wet weather & when working in exposed locations, protect finished work from wind & rain exposure until the adhesive has fully cured. Protection of exterior walls in exposed (coastal) locations can require temporary screens or tarpaulins prior during and after installation secured to a stable scaffold frame or similar throughout the full cure period to shield from wind-blown spray & rain for up to 28 days.

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

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.

Technical summary:

Unit size:	15kg
Colours:	Grey
Mean bed depth:	Up to 10mm
Max bed depth:	Up to 20mm (locally)
Time till ready to grout:	24 hours*
Working pot life:	3 – 4 hours*
Initial Set time:	16 - 24 hours*
Application Temperatures:	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#	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 screed
- ✓ Tile backer boards
- ✓ Cement faced fibre boards
- ✓ Sealed anhydrite /gypsum-based screeds
- ✓ Tile on Tile*
- ✓ Firm and stable plaster (*sealed with TILERS PRIMER*)
- ✓ Plasterboard
- ✓ Sand/cement render
- ✓ Dense high strength brick/block
- Must be securely fixed*

Performance test data:

EN 12004 – C2TE Improved, standard setting cementitious adhesive with reduced slip & extended open time	
Initial Tensile adhesion strength at 30 mins open time	> 0.5 N/mm2
Initial Tensile adhesion strength	> 1.0 N/mm2
Tensile adhesion strength after heat ageing	> 1.0 N/mm2
Tensile adhesion strength after freeze thaw cycles	> 1.0 N/mm2
Tensile adhesion strength after water immersion	> 1.0 N/mm2
Reduced Slip	< 0.5mm
Reaction to Fire	Class E

