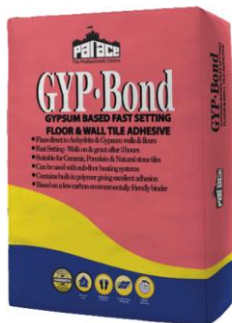




Technical Data Sheet



PALACE GYP-BOND is fast setting, polymer modified, calcium sulphate (gypsum) based adhesive for fixing ceramic & semi-porous stone tiles onto wall & floor surfaces which are constructed from gypsum-based materials, such as an Anhydrite floor screed or a Gypsum based smooth finishing plaster. It offers a compatible solution to allow direct fixing on “gypsum-based” floors & walls and its’ fast-setting” properties allow grouting to proceed after 3 hours after setting.

- **Fast setting adhesive allows grouting 3 hours after fixing**
- **Fixes Ceramic Porcelain & Natural stone tiles to Gypsum walls & floors.**
- **Forms a direct bond without the need for a pre-sealing barrier**
- **Recommended for Interior application in dry locations, not exposed to water.**
- **Fixes natural stone tiles such a quarry, travertine & terracotta**

Description:

PALACE GYP-BOND is a calcium sulphate based one Part Flexible Rapid Setting tile adhesive for fixing ceramic, natural stone & porcelain tiles to floors & walls which are gypsum based, i.e. Anhydrite floor screeds or Calcium Sulphate (Gypsum based) wall plasters. This enables a direct bond to be formed without the need for applying a pre-sealing barrier. It sets within 1 hour and will support light foot traffic after 3 hours. **PALACE GYP-BOND** incorporates a high polymer loading and can be applied over anhydrite floors where sub-floor heating is in use or to be applied.

Surface Preparation:

The receiving floor surface must be hard, sound and free from grease, dust, floor, efflorescence and loose deleterious materials such as worn surface coatings & plaster laitance. In addition to suitable prepared & dry anhydrite & gypsum-based surfaces **PALACE GYP-BOND** to non-cement based Tile Backer boards, (including Gypsum based boards), finishing plaster & bare plasterboards. It is NOT suitable for fixing directly to any cement-based screed, concrete base or cement based / coated tile backer boards.

Anhydrite screeds receiving tiles fixed with should be allowed sufficient time to dry out, tested in accordance with BS8203:2001, will give results < 85% RH which may normally require at 20°C 60% RH 1day/mm up to a 40mm depth and a further 0.5 day/mm if >40mm depth. Anhydrite screed will require sanding & vacuuming to remove all laitance and can be carried out when the screed base is 7–10 days in place to assist drying.

Even when dry, Anhydrite & Gypsum-based surfaces can still be very porous & absorbent, therefore it is still advisable to coat the surface with **PALACE TILERS PRIMER** diluted 1 to 3 with water, as this will reduce suction & optimise coverage. NOTE: Palace Gyp-Bond is NOT recommended for use on surfaces in, locations which are likely to become frequently wet (showers, pool-sides, wet-rooms etc). This adhesive is specifically developed only for fixing tiles onto gypsum-based substrates in DRY areas, where this is not the case then a cement-based adhesive should be used.

Mix Preparation:

PALACE GYP-BOND should be added to water in a clean container whilst mechanically stirring and mixed thoroughly to give a smooth, soft, slump-free, easily worked mortar. The recommended mixing proportions by volume are 1-part water to 3 parts powder (Approximately 5 litres per 20kg sack). The consistency of the paste can be adjusted with slight additions of water or powder at the initial mixing stage, however part-used adhesive should never be “freshened up” with later water additions but should always be discarded once it appears to lose its’ workability. In ideal conditions (20°C room temperature), **PALACE GYP-BOND** will remain workable for up to 1 hour at 20°C and then reach final set after 3 hours, after which time it is sufficiently well cured to permit grout application on both walls & floors.

Application Method:

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 and 10mm x 10mm notch at 16mm centres for floor tiling. The position of the tiles can be adjusted up to 10 minutes after initial fixing. Open time of the exposed mortar bed is approximately 30 minutes, depending on surface porosity and site temperatures. It is recommended that tiles with raised or studded back profiles, (or in situations where dampness is likely after tiling), should be back-buttered to ensure solid bed fixing. Do not trowel out an area of adhesive greater than can be tiled over within a 30-minute period. Uneven anhydrite-based floor surfaces should be prepared with **PALACE GYP-LEVEL** floor smoothing & levelling compound. Do not mix or apply **PALACE GYP-BOND** when air or ground temperatures are forecast to be below 5°C or greater than 35°C at any time during the first 24 hours after application.

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 10mm notched trowel, **PALACE GYP-BOND** will cover at a rate of about 4kg per sq. mtr for heavy-duty, studded tiles. When applying 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 for **PALACE GYP-BOND** will be after 3 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 GYP-BOND is supplied in 20kg 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.

Health & Safety:

Always ensure that appropriate PPE is worn when mixing & applying this product to ensure protection from airborne dust and skin contact with the mixed liquid product. Wash hands after use and launder stained clothing. Do not consume food when working with this material 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

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:	20kg
Colours:	Beige
Mean bed depth:	Up to 6mm
Time till ready to grout:	3 hours*
Working pot life:	1 hour*
Initial Set time:	2 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 (<i>sealed with Tilers Primer</i>)	20.0
Gypsum plasterboard (12.5 mm)	32.0
Lightweight foam-cored tile backer boards	60.0
Gypsum fibreboards	40.0

- Consult the manufacturer

Approved receiving surfaces:

- ✓ Tile backer boards (not cement base)
- ✓ Electric wire Underfloor Heating
- ✓ Pipe embedded Underfloor Heating
- ✓ Flooring Grade Asphalt & Bitumen
- ✓ Anhydrite Screeds
- ✓ Smooth finishing wall Plaster
- ✓ Plasterboard
- ✓ Existing Ceramic & Vinyl Tiles
- ✓ Anhydrite /gypsum-based screeds
- ✓ Plasterboard
- *Must be securely fixed*

Performance test data:

Note: Palace Gyp-Bond will give adhesion strengths equivalent to a conventional C2TE cement based adhesive when used internally in dry conditions.

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