



AQUATILE WATERPROOF Wall Tile Adhesive



Issue – WPTA/0413

**INSTANT GRAB
HIGH SPREADABILITY**

**HIGH BOND STRENGTH
FULLY WATER RESISTANT**

**SUITABLE FOR POWER
SHOWER AREAS**

Description:

WATERPROOF TILE ADHESIVE is an off-white ready mixed adhesive paste, for use as a thin-bed waterproof ceramic wall tile adhesive and conforms to BS 5980 Type 2 Class AA (BS EN 12004 Type D, Class 2T). Suitable for fixing all types of ceramic wall tiles, including mosaics, porcelain and vitrified tiles in internal locations such as bathrooms, kitchens and shower areas where the tiled surface is subject to frequent wetting, but not total water immersion. WATERPROOF TILE ADHESIVE can be applied to gypsum plaster, cement fibreboard, existing tiles, cement render, concrete block-work, timber panels and plywood composite boards. WATERPROOF TILE ADHESIVE is recommended for use in areas such as multi-shower changing rooms, steam rooms, power showers, worktops and any tiled wall surface, which is subject to persistent humidity or frequent wetting.

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 TILERS PRIMER SBR diluted as 1 part to 3 parts with water. All wood-based surfaces, (plywood and composite panel-boards) should be dry, sealed on all exposed faces and edges and then primed using TILERS PRIMER SBR diluted as 1 to 3 parts water. Timber boarding should be waterproof rated, 15mm thick and be screw fixed at 150mm centres to provide a dimensionally stable background as described in BS 5385. In frequently wet areas where WATERPROOF CTA is used it is not recommended that wall panels be constructed from plasterboard or any composite material, which does not have some degree of water resistance. 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. Expansion joints should be installed in accordance with the recommendations of BS 5385. Remove areas of unsound (emulsion based) paint from walls and when tiling over existing tiles ensure they are securely fixed in all areas. Clean and dry tiled, or non-porous surfaces and slightly score out joints to provide a key.

Application Method:

WATERPROOF TILE ADHESIVE is intended for application by a notched trowel (5mm x 5mm notch at 10 - 25mm centres) to give a ribbed bed on the wall surface, into which the tiles are firmly bedded with a twist and slide action to ensure complete contact, without any voids or gaps remaining beneath the tiles. The position of the tiles can be adjusted up to 10 minutes after initial fixing. Open time of the exposed adhesive bed is approximately 20 minutes, depending on surface porosity and site conditions, however in warm rooms this period may be reduced – check the adhesive remains “tacky to touch” as fixing proceeds. Do not trowel out an area of adhesive greater than can be tiled over within a 10 minute period (about 1 square metre). The final adhesive bed depth should be in the range of 2 to 3mm and grout joints should be at least 2mm, unless self-spacing tiles are used. Ensure all adhesive residues remaining on the tile face are wiped clean with a

Technical summary:

Appearance:	Water resistance:	Open time:	Initial drying time:	Coverage:
Smooth off-white paste	For frequently wet areas	20 minutes	24 hours (porous walls)	1.7kg per sq. metre

moist cloth as fixing proceeds, and rake out any excess adhesive from within the grout joints. WATERPROOF CTA should not be applied onto walls affected by penetrating damp, or when the room temperature is below 5°C. 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 300mm x 300mm or greater should ideally be fixed using a cement based adhesive. Additionally, all 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.

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 or waterproof boards. These periods however may be prolonged in cold conditions. In areas subject to intermittent wetting, such as domestic showers, always use a waterproof grout such as WHITE WALL TILE GROUT or ready mixed ACRYLIC GROUT. Allow 14 days for both the adhesive and grout to fully dry out before subjecting the tiled area to contact with water.

Coverage & Classification:

Depending on surface texture and porosity, on a typical smooth plastered wall AQUATILE will cover at a rate of 1.7kg per square metre.

 NB1289	
PALACE CHEMICALS Ltd Speke Hall Industrial Estate, Speke, Liverpool, L24 1YA 45-4 / 1-CPR/2013	
EN 12004:2007+A1:2012 – D2T Improved dispersion adhesive with reduced slip for tiling	
Initial Shear adhesion strength	> 1.0 N/mm ²
Shear adhesion strength after heat ageing	> 1.0 N/mm ²
Open Time: tensile adhesion strength (20min)	> 0.5 N/mm ²
Adhesion strength after water immersion	> 0.5N/mm ²
Adhesion strength at elevated temperatures	> 1.0 N/mm ²
Reduced Slip	< 0.5mm
Reaction to Fire	Class F

Storage & Packaging:

WATERPROOF TILE ADHESIVE is supplied in 15kg & 7.5kg buckets and has a storage life of not less than 12 months if kept in dry, un-opened conditions. Consult the WATERPROOF TILE ADHESIVE material safety data sheet for advice on handling and safety procedures. Should more technical information be required, contact the Palace Technical helpline on 0151 486 6101.

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.



PALACE CHEMICALS Ltd
Speke Hall Industrial Estate;
Speke; Liverpool; L24 4AB
Tel: 0151 486 6101 – Fax: 0151 448 1982
e-mail: sales@palacechemicals.co.uk

