



AQUATILE WATERPROOF TILE ADHESIVE

Issue – HPWPTA/0402

**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 blockwork, 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. Thoroughly 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 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 up to 14 days for both the adhesive and grout to fully dry out before subjecting the tiled area to contact with water.

COVERAGE:

Depending on surface texture and porosity, on a typical smooth plastered wall AQUATILE will cover at a rate of 1.0 litre per square metre.

TECHNICAL SUMMARY:

APPEARANCE:	WATER RESISTANT:	OPEN TIME:	INITIAL DRYING TIME:	COVERAGE:
Smooth off-white paste	For frequently wet areas	20 minutes	24 hours (porous walls)	1.0 litre per sq. metre

STORAGE & PACKAGING:

WATERPROOF TILE ADHESIVE is supplied in a 10 litres; 5 litre; (2.5 litre x 4) and (1.0 litre x 12) 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 technical@palacechemicals.co.uk

PRODUCT IDENTIFICATION:

AQUATILE - WATERPROOF CTA

COMPOSITION:

A viscous, dispersion based paste incorporating calcium carbonate fillers, acrylic co-polymer emulsion, in-can preservative, coalescent, cellulose ether and wetting agents.

HAZARDS CLASSIFICATION:

NON -HAZARDOUS

FIRST AID MEASURES:

INHALATION:

Polymer odour may be prominent in a poorly ventilated, confined space. Remove to fresh air and if irritation or breathing difficulties persist, seek medical attention.

SKIN CONTACT:

Wash off skin immediately with warm soapy water. Remove contaminated clothing and launder regularly. Where irritation to skin is apparent seek prompt medical attention.

INGESTION:

Clean out mouth with copious volumes of water and drink plenty. Do not induce vomiting. Beware of aspiration if vomiting occurs. Seek prompt medical attention and show this data sheet.

EYE CONTACT:

Irrigate thoroughly for 15 minutes with clean running water or a boric saline eye wash bottle. Seek medical attention should eye irritation persist or become inflamed.

FIRE FIGHTING MEASURES:

NON FLAMMABLE

Recommended extinguishers – Dry powder; Foam, CO2 – (Polypropylene bucket will support the spread of fire)
Hazardous decomposition when subject to combustion – none known
Special procedures – N/A

ACCIDENTAL RELEASE MEASURES:

Scrape spillages into a waste container and wash remaining residues away with warm soapy water and mark container for disposal in accordance with Local Authority regulations for non-hazardous general building wastes. Consult protective Equipment section for advice when handling spillages.

HANDLING & STORAGE:

Handling: Ensure adequate ventilation and avoid localised sources of heat or prolonged exposure to sunlight.
Storage: Store in well-sealed, clearly marked containers. Keep out of reach of children in a cool well-ventilated environment and do not stack 10 litre buckets more than 4 high to avoid risk of collapse.

EXPOSURE CONTROL / PERSONAL PROTECTION:

Notify persons occupying property when product is in use and advise necessary precautions.

Respiratory: Good ventilation, is necessary when applying in a confined space.

Hand: Wear overalls, PVC gloves and safety boots when applying adhesive

Eye: Goggles not required, although see FIRST AID if eye contact occurs

Skin: Overalls should be worn and laundered regularly where contact with adhesive is likely.

SAFETY DATA SHEET No. 042 – issue date: 03-06-03

PRODUCT: AQUATILE: Water-proof Wall Tile Adhesive

PHYSICO-CHEMICAL PROPERTIES:

Appearance – White, Viscous paste
Boiling point range – n/a
Solubility – partially in water only
Auto ignition temp – n/a
Specific gravity - 1.70 +/- 0.05
Miscibility – water only
Evaporation rate - N/A

Odour – distinctive acrylic odour
Vapour pressure – negligible
Flash point - N/A
Explosive properties - N/A
Viscosity – 15,000 - 22,000 Mpa.s
PH - 8.5 +/- 1.0
Oxidising properties - N/A

STABILITY & REACTIVITY:

Conditions to avoid - High temperatures.
Materials to avoid – Strong acids
Hazardous decomposition products - N/A

TOXICOLOGICAL INFORMATION:

Routes of exposure – Skin contact and ingestion.

Key Health effect – Prolonged, unattended skin contact may cause local irritation & redness.

Acute toxicity: N/A

Sensitisation: N/A

Carcinogenicity: N/A

Irritation: Slight

Mutagenicity: N/A

Reproductive toxicity: N/A

ECOLOGICAL INFORMATION:

Bio-accumulative potential – not expected to bio-accumulate.

Ecotoxicity: Will not adversely affect watercourses.

Environmental Persistence – Components are either biologically inert or slowly bio-degradable.

DISPOSAL CONSIDERATIONS:

Dried residues can be re-wet and scraped up. Unused product and freshly contaminated application materials must be disposed of in accordance with local authority regulations for non-hazardous builders waste.

TRANSPORT INFORMATION:

NOT CLASSIFIED as Dangerous goods under ADR / CPL / IMDG / IMCO regulations.

REGULATORY INFORMATION:

CHIP Hazard symbols: Not classified under CHIP 3 regulations

Contains no hazardous substances in excess of minimum level for classification.

Other regulatory controls: Health & Safety @ Work Act 1974;

Control of Substances Hazardous to Health Regulations 1994. Environmental Protection Act 1990.

FURTHER INFORMATION:

The information supplied in this safety data sheet is intended to assist in the use of the above product without risk to safety and health and is based on current knowledge and experience of the associated physico-chemical hazards. The data does not signify any warranty with regard to the product's properties. This information may be used to assist in formulating a COSHH risk assessment if applied at work.