



# TECHNICAL DATA SHEET

OCT 2024 Ver 02 - PALAB 3110.24



## AQUA-BAN WATERPROOF TANKING SYSTEM

- Suitable for fully immersed tiling
- Dries quickly to a water-resistant barrier
- Tile over after 2 hours\*

### PRODUCT SUMMARY

**PALACE AQUA-BAN** is a liquid membrane waterproof tanking system, designed to protect surfaces beneath tiled areas in areas such as wet-rooms, showers, bathrooms and swimming pools. **PALACE AQUA-BAN** will inhibit the passage of moisture from within the tiled area, into substrates such as plaster, render, plasterboards, tile backer boards, plywood, suspended floors, anhydrite floors and fibre-board overlays.

### DESCRIPTION

**PALACE AQUA-BAN** is a one-part waterproof liquid tanking membrane applied by brush or roller over stable surfaces & structures, protecting them against moisture penetration through a tiled surface in locations such as wet-rooms, showers, bathrooms, kitchens & utility rooms where existing surface cracks & joints are no wider than 3mm. When used in conjunction with the **PALACE AQUA-BAN SEALING KIT** (reinforcing tape & gaskets), this combination provides the added protection (in accordance with **EAD 030352-00-0503**) needed to bridge & cover cracks & joints where possible structural movement & vibration is likely to require sealing across wider gaps & joints over 3mm.

### TECHNICAL DATA

UNIT SIZE	7kg kit
COLOUR	Grey
WET COVERAGE	0.5KG / per m <sup>2</sup>
MINIMUM 2-COAT DRY DEPTH	0.8mm
DRYING TIME (1st coat)	1 - 2 hours @ 21°C*
DRYING TIME (2nd coat)	+ 2 hours @ 21°C*

\* *Dependent on temperature, substrate and site conditions*

EN ISO 45001



OHS 596309

EN ISO 14001



EMS 85788

EN ISO 9001



FM 01010

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## SURFACE PREPARATION

The surface receiving this protective coating should be stable, sound and free from oil, grease and loose deleterious coatings. Timber and boarded structures must be rigidly braced and sufficiently constructed to withstand anticipated loading without flexing, deformation or any movement around joints and seams.

Timber constructed floors & walls must also have sufficient ventilation from behind and below to avoid interstitial condensation. Maximum deviation in any surface plane must not exceed SR1 requirements of plus or minus 3mm over a 2m straight edge.

New concrete slabs should be fully cured for a minimum of 4 to 6 weeks before application. Ensure the receiving surface is free from any gaps & depressions and that gypsum-based surfaces (anhydrite screeds) have been allowed sufficient time to fully cure & dry out (<75%RH) before being primed with **PALACE TILERS MULTI-PRIME**.

Seal all structural gaps & joints with a **PALACE SILICONE SEALANT** or a suitable repair compound and then allow this to fully cure before proceeding. More significant gaps, joints, corners and wall/floor transitions greater than 3mm can be repaired using a suitable patch repair compound before being sealed over with tape from the **PALACE AQUA-BAN SEALING KIT**, then coated with **PALACE AQUA-BAN** liquid membrane.

Boards should be firmly fixed to supporting joists and free from movement. Floorboards should be overlaid with at least 15mm exterior grade plywood or tile backerboards screw fixed at 300mm centres.

## APPLICATION

On porous or semi-porous surfaces (such as skimmed plaster), use a brush or roller to apply **PALACE AQUA-BAN** diluted as 1:3 parts with clean water or **PALACE TILERS MULTI-PRIME** to seal the walls & floors across all areas where the waterproof liquid membrane is to be applied then allowed to dry prior to using the **PALACE AQUA-BAN** liquid membrane in its neat form to start the waterproofing process.

Using a brush or roller, liberally apply the first coat of **PALACE AQUA-BAN** to all wall, floor surfaces & structural joints, pipe inlets & gully areas. Coverage rate should be a minimum of 0.5kg per sq.mtr, equivalent to 0.4mm wet depth per dry coat. Once the first coat is dry, apply a second coat of **PALACE AQUA-BAN** at the above rate and allow to dry.

Where movement is likely to create wider gaps or joints (>3mm), cut the reinforcing tape from the **PALACE AQUA-BAN SEALING KIT** to size and press the pre-cut tape across all joints whilst the first coat of **PALACE AQUA-BAN** liquid membrane is still wet, smoothing down the tape as you go, forcing out any trapped air and repeat this procedure where the pipe entry gaskets are being fitted and around the gully area.

When all tapes & gaskets are securely in place apply a second coat of **PALACE AQUA-BAN** at 0.5kg per sq.mtr across the full area of the floor and walls (including over the taped joints & inlets) and allow to dry. **PALACE AQUA-BAN** is usually ready to tile or flood test in 2 hours, but depending on site conditions, a full 24 hours may be required for unheated areas. When fitting drainage gullies with **PALACE AQUA-BAN**, ensure that the whole gully gasket is covered. When the first coat is dry, cover with a second coat and when this is dry, apply a waterproof **PALACE SILICONE SEALANT** around the gully edges & drain throat.

High temperature site conditions will increase the drying rate whilst lower temperatures will prolong drying time.

Guidelines in BS EN 5385 should be followed to ensure movement joints are accounted for in the design of the tiling installation and surface falls must allow water to run freely across the floor surface to the drain.

## COVERAGE

Depends on the surface texture and porosity, however on a typical smooth, even surface, **PALACE AQUA-BAN** waterproof coating will cover at an optimum rate of no less than 0.5kg per sq.mtr, (1.0 m<sup>2</sup> per kg as two coats) and this 7kg pack is sufficient to cover 7 square metres with an average dry coating depth of 0.8mm +/- 0.1mm.

## FIXING TILES

Surfaces protected by **PALACE AQUA-BAN** are considered impermeable and do not require priming. Any large format or porcelain tiles should only be fixed to the prepared surface using a cement-based adhesive such as **PALACE EASI-FLEX C2TE-S1** or rapid setting **PALACE MULTI-FLEX C2FTE-S1**.

## PRECAUTIONS

Ensure all structures and surfaces being coated by **PALACE AQUA-BAN** are protected from the ingress of rising or penetrating damp by the pre-installation of a suitable external DPM or tanking membrane.

Do not apply **PALACE AQUA-BAN** at substrate temperatures below +5°C and above +30°C. Tools should be washed with water immediately after use. Once the product has cured it can only be removed by mechanical means. Do not use over dynamic expansion joints, or cracks with vertical differential movement or joints.

Do not expose the unprotected membrane to sun or weather for more than 30 days and never apply this product to sub-ground walls subject to negative hydrostatic pressure. **PALACE AQUA-BAN** membrane must be covered with ceramic tile, stone, or for temporary cover, use protection boards. Do not install directly over single layer wood floors, plywood or similar constructs where deflection is likely.

EN ISO 45001



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## STORAGE

**PALACE AQUA-BAN** is supplied in a re-sealable bucket and has a storage life of not less than 12 months if stored in dry conditions. Do not store or apply in temperatures below 5°C or greater than 30°C. Should further technical information be required, contact the Palace Technical helpline on 0151 486 6101.

## HEALTH & SAFETY

### May Cause An Allergic Reaction

Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection or face protection (mask). IF ON SKIN: Wash with plenty of water and soap. IF SWALLOWED: Do not induce vomiting. Get immediate medical advice / attention.

**Contains:** 1,2-benzisothiazol-3(2H)-one, 2-methylisothiazol-3(2H)-one, Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1).

May produce an allergic reaction.  
Dispose of contents in accordance with local regulations.

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 & 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 ADVICE

For advice on tile installation products call the Palace Chemicals Technical Helpline on 0151 336 9104.

## PROPERTIES

- Easy to apply with brush or roller.
- Protective waterproof under-tile coating.
- Flexibility accommodates movement & vibration.
- Forms a strong bond to most wall & floor surfaces.
- Reinforced tape protection around all joints & pipe entry points
- Suitable for use beneath immersed tiling

## RECOMMENDED AREAS OF USE

- Interior and exterior elevations
- Swimming pools and water features
- Showers, wet rooms and bath surrounds
- Bathrooms, utility areas and laundries
- Spas and hot tubs
- Kitchens and food processing areas
- Balconies over unoccupied spaces
- Worktops and facades
- Steam rooms

## RECOMMENDED RECEIVING SURFACES

Plasterboard  
Plywood  
Lightweight backer boards  
Cement backer boards  
Gypsum plastered walls  
Cement renders  
Concrete  
Existing tiles  
Anhydrite floor screeds  
Blockwork

## 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. Our products are guaranteed against defective materials and manufacture and will be replaced or money refunded if the goods do not comply with our promotional literature. We cannot however accept responsibility arising from the application or use of our products because we have no direct or control over where and how our products are stored and used. All products are sold and guaranteed subject to our terms and conditions of sale, copies of which may be obtained on request.

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## CLASSIFICATION

<b>UK CA</b>	<b>CE</b>	<b>UK NI</b>
1289 - 24		
Palace Chemicals Ltd, Speke Hall Industrial Estate, Speke, Liverpool L24 1YA		
DoP - 83-16		
<b>EN 14891:2012 - DMP</b> Liquid applied watertight covering kit, for wet rooms, floors and walls beneath a wearing surface.		
<b>Essential characteristics</b>		
Water tightness	Watertight	
Crack bridging	≥ 0.75 mm	
Bond strength	≥ 0.5MPa	
Joint bridging	Pass	
Resistance to temperature	≥ 0.5MPa	
Resistance to water	≥ 0.5MPa	
Resistance to alkalinity	≥ 0.5MPa	
Water tightness around penetrations	Watertight	
Vapour permeability	Sd = 66m	

