



# FEATHER-EDGE



Issue – FE/01/0819



- **Fast Drying – ready to walk on after 20 minutes**
- **Trowel Applied highly polymer modified repair mortar**
- **Readily bonds to all common sub-floors without priming**
- **Apply from a “feather edge” skim depth up to a 25 mm slope**
- **Bonds readily to & seals joints, screws & depressions in plywood**
- **Multi-surface repair treatment prior to applying a floor leveller.**

## Description:

**PALACE FEATHER EDGE** is a premium quality, ultra-fast-drying, cement-based underlayment & repair treatment designed for skim-coating and ultra-fine surface finishing prior to the application of floor coverings which require the smoothest possible sub-surface. Apply from a “feather edge” skim depth up to a single layer depth of 25 mm). ultra-fast setting allows for the installation of finished flooring as soon as 20 minutes after application. This trowel-applied product has a superior creamy consistency making it the ideal choice for fine finish skim coat applications.

## Surface Preparation:

The receiving floor surface must be hard, sound and free from grease, dust, floor polish and loose deleterious materials such as worn surface coatings, plaster. Any adhesive & coatings residues must first be tested to determine if they are “moisture sensitive” and then removed if necessary. Prior to applying **PALACE FEATHER EDGE** and then a subsequently over-laid floor levelling compound, the base concrete or sand/cement screed should be tested to confirm that it has had sufficient time to dry out to reach a consistent moisture reading of <75% R.H. (< 3.0% actual residual moisture content – carbide test) - tested as per BS 8203:2017 - Annex B. Where it is not known whether an effective structural DPM is in place, or where the above moisture test results show values in excess of 75% R.H. (or > 3.0% residual moisture content), then a liquid damp-proof membrane such as moisture suppressant **PALACE 1-COAT DPM** should be applied onto the prepared concrete sub-base.

## Specific Substrate Preparation:

Although **PALACE FEATHER-EDGE** will bond readily to most solid sub-floors, where Anhydrite Screed (Calcium Sulphate) based floors are being over-laid, the application of two coats of **PALACE MULTI-PRIME** will be necessary to form a barrier & avoid any adverse interaction between the cement-based **PALACE FEATHER EDGE** and the gypsum-based screed beneath it. (Consult **PALACE MULTI-PRIME** tech data sheet).

### \*Anhydrite [Calcium Sulphate] based Screeds:

Mechanically remove any loose material / laitance to give a clean, dry, solid dust-free surface prior to the application of **PALACE MULTI-PRIME** (first coat diluted 1 to 1 then 2<sup>nd</sup> coat neat) to ensure a protective barrier is established. Drying times of this class of screed can be at a rate of 1mm screed depth per day (2mm per day is > 40mm deep). Anhydrite screeds which already incorporate pre-installed underfloor heating systems can be used this heat source to reduce drying times, along with de-humidifiers operating in the room, which will also speed up the drying process. The relative humidity (%RH) test result in the subfloor should be less than 75% RH, (residual moisture content < 0.5%) however where this cannot be achieved within a manageable period of time the application of a Damp -Proof Membrane (1-COAT DPM) is recommended to be applied after the **PALACE MULTI-PRIME** barrier preparation step (above) has already been completed.

### Flooring Grade Asphalt:

New asphalt must be left for a minimum of 7 days and degreased to remove surface bloom. If cracks are visible repair will be necessary to give a strong subfloor. Check the floor is in good condition and that there are no signs of de-bonding and/or hollowness.

### Sand/Cement Screeds:

Recently installed sand/cement screeds must be allowed a minimum of 4 weeks to dry sufficiently. Ensure new sand/cement screed is confirmed dry via consistent moisture measurements across the whole surface. Sand/cement screeds must have a moisture reading of less than 75% relative humidity (RH) before any levelling compound can be applied over it. Remove any laitance from the surface mechanically and ensure that any other contaminants are cleared from the surface. ideally by a vacuum cleaner. On porous or worn screeds, prime the surface with **PALACE MULTI-PRIME** diluted as 1 part to 3 parts water and then allow to dry.

### New concrete

Floor slabs must be allowed at least 6 weeks drying time equivalent to 1 day per mm up to an overall depth of 50mm and 2 days per mm for anything above 50mm. Ensure new concrete is tested via consistent moisture readings across the whole surface whereby a reading of less than 75% relative humidity (RH) is advised before work can commence. Remove any laitance from the surface mechanically and ensure that oil, grease curing agents and any other friable materials are removed ideally by vacuum. If the surface is relatively porous prime the surface with **PALACE MULTI-PRIME** diluted as 1 part to 3 parts water and allow to dry.

### Dense or Power Floated Concrete:

Ensure the surface has been allowed 7 days to cure. Ensure new concrete is confirmed dry via consistent moisture readings across the whole surface. Concrete screeds must have a reading of less than 75% relative humidity (RH) is advised before proceeding to over-lay. Remove any laitance or friable top finish from the surface mechanically whilst scoring & etching the surface before takins up all remaining dust residues by vacuum.

### Plywood Overlay:

Check that plywood overlay is flooring grade compliant to EN 314:2 Class 3 Exterior before applying **PALACE FEATHER EDGE** and ensure that new or existing boards are pre-conditioned to the environment in which they will be used. When the finished floor is LVT or a similar soft-flooring, a 6mm Plywood sheet, screw-fixed base can be used, but for resilient ceramic or stone surfaces the Plywood base must be a thickness of 15mm minimum & screwed to sub-floor structure at 150mm centres. Ensure there is sufficient ventilation beneath substrate and that the plywood has been fitted competently and will take the weight of the leveller, adhesive and the final anticipated in-use loading without any risk of excessive deflection. It should be dry and free of any contaminants, loose dust or dirt. Existing plywood showing signs of wear or abrasion will require priming with **PALACE MULTI-PRIME** diluted 3-parts water, to 1-part **PALACE MULTI-PRIME**. New, uncontaminated plywood does not require priming prior to over-laying with **PALACE FEATHER EDGE**



## PALACE CHEMICALS Ltd

Speke Hall Industrial Estate;  
Speke; Liverpool; L24 41YA  
Tel: 0151 486 6101 – Fax: 0151 448 1982  
e-mail: sales@palacechemicals.co.uk

EN ISO 14001



EMS 85788

EN ISO 9001



FM 01010

EN ISO 18001



OHS 596309





# FEATHER-EDGE



## Floors coated with a Surface Damp Proof Membrane:

Damp-Proof Membrane coatings such as PALACE 1-COAT DPM should be treated as non-absorbent substrates and the bond with PALACE FEATHER EDGE will be enhanced by sand blinding the freshly applied DPM as this will also assist with improving the bond to over-laid screeds. Where a PALACE 1-COAT DPM has been in place for longer than 24 hours mild abrasion to ensure a good key is formed with the subsequently applied levelling compound.

## Underfloor Heating Systems:

Heating wires must be securely fixed to a sound consistent substrate such as cement backer board. PALACE FEATHER EDGE should then be applied at a thickness which allows for a clearance above the elements of no less than 5mm depth of levelling compound to ensure a smooth even finish will be attained prior to laying the finished decorative or resilient surface. Always allow at least three weeks before the heating elements are switched on at the lowest setting and then only raise the temperature progressively by 2°C per day over the following week.

## Mixing:

Mechanically mix with a drill whisk at a ratio of approximately 2-parts powder to 1-part water (equivalent to 3.3 l of clean water per 10 kg bag or a proportionate ratio) of PALACE FEATHER-EDGE. Do not over-water. Add product to water and mix for 2–3 minutes to ensure a lump-free, super-smooth mix is achieved to a semi-flowable consistency. The product should be allowed to stand for 2 to 3 minutes until it achieves a non-flowable slump-free consistency to permit easier application when trowelled out & building up angled fillets. As the product has a short pot-life, it is important to only mix a sufficient amount of product that can be applied within the working time (typically < 15 minutes at good ambient conditions).

## Application:

Apply the mixed material to substrate with trowel at a thickness from feather-edge to 25 mm for all surfaces. After initial set of material (approx. 10–15 min.), remove all overlap marks, seams and inconsistencies by scraping with a steel trowel. Key in but do not over trowel. Material can be walked on after 20 - 30 minutes at 21°C or higher, depending on thickness. Typical application depths for a skim finish are usually from 0 up to 3mm or less although deeper sections can be applied in small local areas where repair work is needed of up to 3mm can be achieved. For significant applications of 3mm and upwards it is recommended to apply PALACE FEATHER-EDGE in layers not exceeding 3mm each and once cured, the product will provide a smooth surface ready for application of subsequent flooring compounds & coverings.

## Curing & Drying:

PALACE FEATHER EDGE when applied at 20°C & 65% RH under ideal site conditions will allow for a working time of up to 15 minutes and then initial set after 30 minutes, after which it will allow light foot traffic be ready to receive further flooring compounds.

## Coverage:

PALACE FEATHER EDGE when applied over a smooth even non-absorbent floor will cover at a rate of one 10kg bag spread as a 1mm layer will cover up to 50.0M<sup>2</sup>. Adequate ventilation is essential and any draughts or exposure to excessive heat sources must be eliminated to ensure consistent drying.

## Precautions:

PALACE FEATHER EDGE is for interior use & should not be applied in areas likely to fully immersed beneath water. Do not install when surface temperature is below 5°C or above 32°C. Do not install over un-sound painted surfaces. Do not exceed recommended mixing ratio as indicated in mixing instructions, as this will weaken the products' strength & cohesive properties. Do not apply PALACE FEATHER EDGE over waterproofing or crack isolation membranes.

## Storage & Packaging:

PALACE FEATHER EDGE is supplied in 10kg moisture resistant bags and will have a storage life of not less than 12 months if stored in sealed, dry, un-opened and stable storage conditions.

## Technical Data:

<b>Specification:</b>	BS EN 13813:2002
<b>Classification:</b>	CT-C16-F8
<b>Working time @ 20°C</b>	15 min
<b>Flow properties: (using a 30mm x 50mm flow ring)</b>	n/a
<b>Initial set</b>	30 mins
<b>Foot Traffic</b>	45 mins
<b>Ready for floor coverings:</b>	1 Hour as a feather finish
<b>Compressive Strengths: (N/mm<sup>2</sup> – to BS EN 13892-2)</b>	1 day >9.0 7 days >14.0 28 days >16.0
<b>Flexural Strengths: (N/mm<sup>2</sup> – to BS EN 13892-2)</b>	1 day >3.0 7 days >7.0 28 days >8.0
<b>Coverage:</b>	10kg of Feather Edge powder mixed with 3.5 litres of water will cover as follows
	Up to 50 square metres at l< 1mm depth
<b>Application Temps:</b>	>5°C and <30°C
<b>Pack sizes:</b>	10kg powder.
<b>Compatible substrates:</b>	
✓ Sand / Cement screeds	✓ Concrete Slabs
✓ Tile backer boards	✓ Plywood Overlay
✓ Existing ceramic & stone tiles	✓ Under-floor heating
✓ Existing Vinyl tiles	✓ Flooring grade asphalt
✓ Anhydrite screeds *	✓ Epoxy DPM
✓ Green Screed	✓ Moisture stable adhesives

## 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.

## Health & Safety:

Always ensure that appropriate PPE is worn when mixing & applying this product to ensure protection from airborne dust and skin contact. 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.



## PALACE CHEMICALS Ltd

Speke Hall Industrial Estate;  
Speke; Liverpool; L24 41YA  
Tel: 0151 486 6101 – Fax: 0151 448 1982  
e-mail: sales@palacechemicals.co.uk

EN ISO 14001



EMS 85788

EN ISO 9001



FM 01010

EN ISO 18001



OHS 596309