

butech®

TECHNICAL INFORMATION SHEET

BUTECH UNIVERSAL BONDING AGENT GENERAL PURPOSE PRIMER

DESCRIPTION

Butech Universal Bonding Agent, general purpose primer, is a high quality water-based synthetic primer for preparing substrates in readiness for the installation of ceramic, porcelain, glass and natural stone tiles and mosaics. Butech Universal Bonding Agent is suitable for use on a wide range of substrates such as plaster, plasterboard, cement-based tilebacker boards, sand:cement render, masonry work, plywood, concrete, sand:cement and calcium sulphate based screeds. For use in interior and exterior areas.

USES

For priming substrates in preparation for the application of ceramic tile adhesives used to fix tiles. Essential for priming gypsum plaster before fixing tiles with cement-based adhesives. For use on absorbent surfaces only. On non-absorbent surfaces use Butech Techniprim. Can be used to suppress fine surface dust. Note: dust must be removed by thorough vacuuming and only any fine surface dust remaining should be consolidated with the primer. It should not be used to bind very dusty surfaces. Suitable for use with underfloor and undertile heating systems.

FEATURES

- Improves adhesion strength
- Consolidates fine surface dust
- For a wide range of absorbent substrates

SUBSTRATES

Butech Universal Bonding Agent adheres to most absorbent substrates normally encountered in tiling applications such as plaster, plasterboard, cement-based tilebacker boards, render, screeds and concrete. Tiling

should be carried out in accordance with the relevant section of BS5385.

In general, however, surfaces to which tiles are to be bonded should be dry, clean, firm, sound, flat, free from loose and flaking areas and any contamination that may impair adhesion such as laitance, grease, wax, dust, paint residues, etc. The substrate must additionally be capable of taking the additional dead-load of the tiled finish and be free from cracks. All cracks must be professionally repaired before commencing tiling.

Application to metal, existing ceramic and other non-absorbent substrates is not recommended.

PREPARATION

WALLS

Sand:cement renderings

Must be sound and clean; loose dust and friable areas to be brushed off. Any doubtful areas should be cut back and replaced. Repaired areas should mature for at least 2 weeks before tiling. Highly absorbent render surfaces will benefit from an application of Butech Universal Bonding Agent diluted 1:1 with water.

Concrete

New concrete should be left to dry for at least 6 weeks. Any contamination from release agents or retarders from shuttering must be thoroughly removed by wire brushing using water and detergent, followed by three rinses with clean water. Other mechanical abrasion techniques such as needle gunning or bush hammering may also be used. Any wetted

surfaces must be allowed to dry completely. Old concrete must be dry brushed to remove any dust and loose debris from the surface and within any joints. Wash and allow to dry before tiling.

Lightweight block / brickwork

Brush the surface to remove loose material and dust etc. Remove loose material from joints. Wash down the surface and allow to dry. Re-point as necessary to ensure flush joints. New wall construction must be allowed to mature for at least 6 weeks before tiling. Prime with Butech Universal Bonding Agent.

Plasterboard, moisture resistant plasterboard, tilebacker boards

When tiling to plasterboard, ensure that the correct paper side is visible for tiling and refer to the board manufacturer's instructions for fixing and application of decorative finishes. Note that the weight of tiling and the adhesive bed should not exceed 32 kg/m².

Ensure that tilebacker boards are installed as directed by the manufacturer and they provide a firm and stable substrate. Check with the board manufacturer whether there are any weight restrictions.

Gypsum plaster

Plasterwork must be at least 4 weeks old (1 week if a plaster skim coat to over e.g. plasterboard), dry, sound and show no signs of delamination or bond loss from the supporting substrate. It is essential that Gypsum plaster is primed before the application of cement-based adhesives. Apply a primer coat of Butech Universal Bonding Agent diluted 1 parts water to 1 part Butech Universal Bonding Agent.

Plaster should not have been over-trowelled or have an overly shiny, polished surface. If this is the case, it is recommended that the surface is mechanically abraded e.g. with a wire brush, followed by washing down to remove any dust created. Allow to dry and prime with a 1:1 dilution Butech Universal Bonding Agent and water. Allow the primer to dry. Note that the weight of tiling and the adhesive bed should not exceed 20 kg/m².

FLOORS

Concrete

New concrete should be left to dry for at least 6 weeks. Any contamination from release agents or retarders from shuttering or curing

agents must be thoroughly removed by wire brushing using water and detergent, followed by three rinses with clean water. Other mechanical abrasion techniques such as scabbling or shot-blasting may also be used. Any wetted surfaces must be allowed to dry completely. Old concrete must be dry brushed to remove any dust and loose debris from the surface. Wash and allow to dry before tiling.

Power floated concrete must be mechanically abraded to open up the surface and provide a good mechanical key.

Sand:cement screeds

New sand:cement screeds should be allowed to dry out by exposure to air for a minimum of at least 3 weeks before commencement of tiling. Both new and existing screeds should be well compacted, free from loose and weak areas and cracks. All surface contaminants should be removed by dry brushing followed by vacuuming. Loose or weak areas should be removed and repaired with e.g. Butech Level 3. Highly absorbent screed surfaces may be primed with Butech Universal Bonding Agent diluted 1:1 with water prior to commencing tiling.

Anhydrite / hemi-hydrate screeds

Calcium sulphate based screeds must be abraded to remove the surface laitance prior to priming with Butech Universal Bonding Agent. They must additionally be dry to 0.5% w/w moisture when measured using a carbide hygrometer. Where these screeds are heated the advice should be sought from the manufacturer with regard to the commissioning of the heating system.

Plywood overlay

The existing timber floor must be dry, free from rot and securely fixed to the supporting joists using rust resistant countersunk screws to ensure it cannot move beneath the overlay. Ensure that there is adequate ventilation beneath. Cover the existing floor with 15-18mm WBP or marine grade plywood, screwed down at maximum 300mm centres in all directions. Use rust resistant countersunk screws and ensure that screw heads are not proud of the plywood surface.

APPLICATION

1. Shake the bottle before use (dilute accordingly)
2. Apply Butech Universal Bonding Agent to