



Ressi TA Re Bond 245 is a high-performance, polymer-modified, cement-based **tile-on-tile adhesive**-designed for fixing new ceramic, porcelain, vitrified, and selected natural-stone tiles directly over sound, existing tile surfaces. Supplied as a single-component powder **just add clean water** it offers excellent bond strength, thixotropic, non-slump application on walls and floors, and **extended open time** to aid faster, reliable installations in residential, commercial, and light-industrial areas, indoors and outdoors.

ADVANTAGES

- ✓ Excellent Bond Strength
- ✓ Tile-on-Tile Compatibility
- ✓ Slip and Sag Resistance
- ✓ Extended Open Time
- ✓ Deformable (Flexible) Nature
- ✓ Pre-Mixed Powder (Water Addition Only)
- ✓ Smooth and Creamy Workability
- ✓ Excellent Coverage
- ✓ Suitable for Interior and Exterior Use
- ✓ Water and Heat Resistant
- ✓ Low Shrinkage Formula
- ✓ Environmentally Friendly

SURFACE PREPARATION

The surface must be properly prepared to ensure maximum adhesion and long-term performance of **Ressi TA Re Bond 245**. The existing tiled surface should be sound, firmly bonded, and free from any loose or hollow areas. **All damaged or unstable tiles must be removed and levelled flat with the existing surface using an appropriate repairing material from Ressichem, such as its Non-Shrink Cementitious Grout, Levelling Screed, or Compound.** The entire surface should then be thoroughly cleaned using a suitable detergent or degreaser to eliminate dirt, oil, grease, wax, soap residues, or any contaminants that may impair bonding. After cleaning, rinse with clean water and allow the surface to dry completely. For glazed or polished tiles, mechanical abrasion using a grinder or abrasive pad is recommended to roughen the surface and create a better mechanical key for adhesion. On dense or non-porous substrates, a compatible **Ressichem primer or bonding agent** should be applied to enhance adhesion and allowed to dry before proceeding. Ensure the substrate is dry and free from any rising damp or continuous moisture. Application should be carried out at ambient temperatures between **5°C and 35°C**, avoiding direct sunlight or strong winds that could cause premature drying and reduce open time.



PRODUCT PREPARATION

Ressi TA Re Bond 245 is a pre-mixed, polymer-modified, cement-based adhesive supplied in powder form and requires only the addition of clean water for preparation. It is essential that the water quantity be accurately measured in accordance with the guidelines provided in the technical data table. The pre-measured clean, potable water should be placed into a suitable mixing container, and the powder should be **gradually added into the water** not vice versa to prevent the formation of lumps and to ensure a uniform, consistent mix. Mixing should be carried out using a **mechanical paddle mixer or mortar mixer** until a smooth, homogeneous, and lump-free paste is achieved. **Manual mixing may be performed only for smaller applications**, where the quantity of material required is limited. Allow the mixed material to rest for 2–3 minutes, then remix briefly before application. Always ensure the mixing container is clean, **uncontaminated, and non-corrosive**. For the precise water-to-powder ratio, refer to the **Technical Data** section of this datasheet.

APPLICATION

Before application, ensure that the substrate has been properly prepared in accordance with the surface preparation guidelines. The adhesive should be applied within its workable time after mixing. Using the flat edge of a trowel, first spread a thin layer of **Ressi TA Re Bond 245** onto the substrate, pressing firmly to achieve full contact and proper wetting of the surface. Immediately thereafter, comb the adhesive with the **notched edge of the trowel** to achieve the desired thickness and uniform ridge pattern, depending on the size and type of tiles being installed. Only apply as much adhesive as can be covered with tiles within the product's open time. Place the tiles firmly into position with a slight twisting or sliding motion to ensure full coverage on the tile back and good contact with the adhesive bed. Occasionally lift a tile to check for adequate coverage **100% mortar coverage is expected for tile on tile applications**. Avoid the formation of air pockets beneath the tiles. Do not pre-wet tiles before installation. Ensure that all alignment adjustments are made within the open time of the adhesive. Excess adhesive should be cleaned from tile surfaces and joints before it hardens. Once the adhesive has set, disturbed tiles should not be adjusted. For large-format or heavy tiles, or when installing over uneven surfaces, **back-buttering** of the tile is recommended to achieve full adhesion and eliminate voids. Expansion and movement joints should be provided in accordance with standard tiling practices and architectural specifications.

TECHNICAL DATA

Appearance	White Powder
Composition	Contains cement and selected aggregates along with additives to improve consistency, workability, and durability.
Maximum aggregate size	0.6mm
*Water application	25% $\pm$ 5%
*Pull off strength	1.25 N/mm ² @ 28 Days Tested as per BS EN 1348
*Slip Test	Non-Slip as per BS EN 1308
*Open Time	25 Min tested as per BS EN 1346
*Water Retention	99.4%
*Approximate Yield / Coverage	0.78m ³ /T

*Typical Results under laboratory conditions
This product conforms to the requirements of BS EN 12004:2017 + A1:2012, classified as C2TES1 (improved cementitious adhesive with reduced slip, extended open time, and deformable characteristics).

SHELF LIFE

Expiration of **Ressi TA Re Bond 245** is at 12 months after production date under dry and sheltered conditions.

PACKAGING

Ressi TA Re Bond 245 is available in 20 KG Bags.

HEALTH AND SAFETY

Ressi TA Re Bond 245 is regarded as non-hazardous for transportation. Do not reuse bags or containers and dispose them off as per local rules and regulations. Gloves and suitable masks can be worn during application. Please refer to the MSDS of the product for further health and safety information.



RESSICHEM®
adding life and value to your property



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NOTE:

If printed bags are not available, neutral bags with label. Lot number and manufacturing date to be stamped at the back of each bag.