

BC Poxy TA 255

Product Description:-

BC Poxy TA 255 is a solvent-free, thixotropic, three- component tile adhesive, based on a combination of epoxy resins and specially selected high strength fillers. Suitable for use in hot and tropical climatic conditions.

Uses:

BC Poxy TA 255 can be used as heavy duty adhesive where high mechanical and chemical properties are re- quired such as the following:

Bonding of refined ceramic / porcelain tiles, marble, granite and glass mosaic
Industrial kitchens and catering facilities
Fixing acid resistant tiles in heavy duty workshops and services facilities

Characteristics / Advantages:

BC Poxy TA 255 is an extremely versatile product that offers many advantages to the user:

Non-absorbent easy to clean and hygienic in service
Hardens without shrinkage
Excellent mechanical properties with high abrasion and impact resistance
Excellent resistance to a wide range of chemicals
Excellent adhesion to most substrates
Suitable for vertical and horizontal applications

Product Information:

Composition:

Epoxy resin

Packaging:

Standard unit: 34 kg

Component: A	4 Kgs
Component: B	2Kgs
Component: C	24 Kgs
Component: A+B+C	34 Kgs



Colour:

Grey (mixed components A+B+C)

Shelf life:

12 months from date of production

Storage:

Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between 5 °C and 35 °C. Protect from direct sunlight, heat and moisture.

Density A+B+C)	~2.00 kg/l (mixed comp.:
Compressive Strength (ASTM C579)	~60 N/mm ²
Tensile Strength (ASTM D638)	~18 N/mm ²
Tensile Adhesion Strength (ASTM D4541)	≥ 6 N/mm ² (or concrete failure)

Substrate Preparation:

- Substrates must be properly cured, structurally sound, free of any loose or friable particles, clean, dry and free of any contaminants such as dust, dirt, oil, grease, cement laitance or efflorescence.
- Metal surfaces (steel and iron) should be free from scale, rust, oil and grease.
- Depending on the substrate condition and contaminants to be removed from the surface, perform appropriate preparation techniques, such as blastcleaning, in order to remove all traces of any materials that could reduce the product's adhesion to the substrate.
- Any small surface defects and variations in level, profile, or around exposed aggregates for example, can be prefilled and levelled with an additional layer of BC Poxy 255, to a maximum thickness of 12 mm, applied at least 24 h before laying the ceramic tiling. For larger and thicker areas of surface reprofiling and making good, appropriate mortars from the



Mixing:

Mix components A + B together for at least 2 minutes with a mixing paddle attached to a slow speed electric drill (max. 600 rpm) until the material becomes homogeneous. Slowly add component C and continue mixing until a homogeneous mortar is achieved. Avoid entrapping air.

Application Method / Tools:

Spread the mixed adhesive on the surface to be tiled with a notched trowel large enough to give 100% coverage when tile is pressed into the adhesive. Tiles should be pressed firmly into place until properly aligned and bedded. Ensure that the size of the working area can be tiled within the pot life of the product.

Wall application:

Install a batten to help keep your tile rows straight, following rows of tiles should be applied by using plastic spacers to maintain uniform tile joints and control eventual sagging of the tile.

Cleaning Of Equipment:

Clean all tools and application equipment with Sika® Colma Cleaner immediately after use. Hardened/cured material can only be mechanically removed



Mixing Ratio:

A : B : C = 14 : 1 : 2 (by weight)

Consumption The consumption depends on the surface profile and roughness of the sub- strate and on the size of the tiles and the placing technique (simple placing "floating" or back to back "buttering-floating).

As a guide:

For 1 mm thickness over 1 m2 area approximately 2.0 kg of material. One 34 kg unit will cover approximately 5.6 m2 at 3 mm thickness.	
Layer Thickness	Min.: 3 mm
Max.: 10 mm (locally up to 12 mm thickness possible, for leveling purpose)	
Ambient Air Temperature	+8 °C min. / +40 °C max.
Dew Point	Beware of condensation.
Substrate temperature during application must be at least 3 °C above dew point.	
Substrate Temperature	+8 °C min. / +40 °C max.
Pot Life	~75 min. (+25 °C)

The potlife begins when the resin and hardener are mixed. It is shorter at high temperatures and longer at low temperatures. The greater the quantity mixed, the shorter the potlife. To obtain longer workability at high temperatures, the mixed adhesive may be divided into portions. Another method is to chill components A+B and C before mixing them (i.e. only when application temperatures are above +20 °C).

Open Time ~90 min. (+25 °C)

