



Two-component epoxy grout & adhesive

COVERAGE (Approx. Sq coverage per 10 Kg)

Tile Size X Thickness in mm	Joint Width						
	3mm	4mm	5mm	6mm	8mm	10mm	12mm
100x100x3	480	355	270	225	171	138	116
150x150x4	540	375	301	252	190	153	128
200x150x5	490	342	274	229	173	139	116
200x200x5	570	332	266	276	201	161	135
200x300x6	570	399	319	266	200	161	134
300x300x6	710	496	398	332	249	200	168
400x400x6	950	661	529	442	332	266	222
400x450x7	920	637	510	425	320	256	214
500x500x8	890	619	496	413	310	249	208
600x600x8	1070	737	594	496	372	296	249

## PRODUCT DESCRIPTION

BNA 2X Simple bond is a premium two-component epoxy adhesive and grout, designed for effortless application and exceptional performance. Suitable for a wide range of tiles and stones on both floors and walls, it excels in hygiene-sensitive areas and environments requiring sterile conditions. When mixed, BNA 2X Simple bond forms a smooth, creamy, and thixotropic paste, ensuring easy mixing, application, cleaning, and maintenance. With high mechanical and chemical resistance properties, BNA 2X Simple bond offers unmatched durability, while its vibrant color range adds a touch of elegance to any project.



## AREA OF APPLICATIONS

BNA 2X Simple bond offers versatile applications across a spectrum of environments:

**Residential, Commercial, and Industrial Areas:** Ideal for floor and wall tiles in diverse settings, from homes to public spaces and industrial facilities.

**Underfloor Heating:** Compatible with underfloor heating systems, ensuring seamless integration and comfort.

**Bathrooms and Showers:** Provides durable grouting solutions for wet areas, maintaining integrity in high-moisture environments.

**Kitchen Countertops:** Delivers high bond strength for secure installation of ceramic, porcelain, and vitrified tiles, as well as large format tiles and stones.

**Terraces and Balconies:** Withstands outdoor elements, making it suitable for exterior tiling applications.

Moreover, BNA 2X Simple bond is engineered to excel in challenging conditions:

**Industrial Environments:** Offers high compressive strength and chemical resistance, making it suitable for use in chemical industries, laboratories, production facilities, and more.

**Hygiene-Sensitive Areas:** Resistant to bacteria and fungal growth, it is ideal for hospitals, clinics, swimming pools, and kitchens, ensuring a clean and safe environment.

**Wet Areas:** Low water absorption and resistance to temperature variations make it perfect for wet areas such as swimming pools, spas, bathrooms, and showers.

**High Traffic Zones:** Provides either low or high abrasion resistance, catering to heavy traffic areas like subway stations, shopping malls, and airport terminals.

BNA 2X Simple bond is the ultimate solution for demanding tiling and grouting needs, offering unparalleled performance and durability across a wide range of applications.

## Features & Benefits

- **Effortless Application:** BNA 2X Simple bond Epoxy offers unparalleled ease of application and cleaning, surpassing conventional cementitious sealants.
- **Color Integrity:** Ensures stable and uniform coloring for all tile types.
- **Robust Mechanical Strength:** Exhibits high mechanical strength, providing long-lasting durability to tiled surfaces.
- **Waterproofing:** Delivers superior waterproofing properties, ideal for areas prone to moisture exposure.
- **Crack-Free Finish:** Guarantees a flawless finish with the total absence of cracking or crazing during the hardening process.
- **Chemical Resistance:** Demonstrates excellent resistance to a wide range of chemicals, ensuring longevity even in harsh environments.
- **UV Resilience:** Offers UV resistance, maintaining color vibrancy and integrity over time.

## Surface Preparation

- Ensure tiles or stones are firmly set and the adhesive or mortar is completely dry.
- Remove spacers before grouting. Grout joints must be clean, free of standing water, dirt, dust, and other foreign matter.
- Remove any excess adhesive or mortar from the joint area.
- Do not clean the tiles or stones with acid cleaners. Clean joints by washing with water and detergent. Any moisture present during grouting will reduce performance.
- Ensure joints are completely dry before starting the grouting process.

## Mixing Instructions

- Always use appropriate personal protective equipment (PPE) before mixing.
- Mix Part A (Resin) with Part B (Hardener) in the ratio of 7 parts Resin to 3 part Hardener by weight.
- Thoroughly mix the components for 2-3 minutes until a homogeneous paste with consistent color is achieved.
- Avoid prolonged mixing to prevent trapping air, which shortens pot life.
- The mixed grout remains workable for up to 45 minutes at 25°C.
- Wash tools immediately with water before the epoxy hardens. Once hardened, it becomes difficult to remove.
- For mechanical mixing, use a slow 100 rpm mixer. Do not add water to the mix.

## Tile Grouting

- Ensure proper use of PPE before starting the application.
- Apply the grout using a rubber float, squeegee, or other appropriate tool.
- Force the grout into the joints in a continuous manner, ensuring they are firmly filled and free of voids.
- Wipe off any excess material within 30 minutes using a damp sponge or appropriate tool, in a circular motion for optimal results.
- Use minimal water during cleaning to avoid impairing the final chemical resistance.
- Cord off the area to prevent accidental damage to the grout.
- For vertical surfaces, use a non-abrasive cloth or smooth pad to loosen any film without removing epoxy from the joints.
- Perform any touch-ups within 30-45 minutes of application.
- Complete final cleaning within 10-20 minutes from the initial cleaning.

## Adhesive Application

- After mixing, apply the adhesive to the substrate using a notched trowel.
- Press the tile or stone firmly against the adhesive bed with slight shear.
- Ensure proper material transfer for good bonding. Regularly check the transfer of material to the tile or stone.

## Cleaning and Finishing

- Clean and finish the grout work while the product is still wet, and as soon as possible.
- Sprinkle clean water over the grouted surface.
- Perform initial cleaning with a moistened white felt float, making circular movements to seal tile sides and remove excess grout.
- Follow with a second pass using a sweepex sponge to obtain a smooth, closed surface.
- Replace felt and sponge when impregnated with resin.
- Remove any stains or residues after 24 hours using an appropriate cleaner.
- For correct use, refer to the technical data sheet.

## Precautionary measures for optimal BNA 2X Epoxy application

### Application Conditions:

- **Temperature Range:** Apply the product within the recommended temperature range of +10°C to +30°C for optimal results.
- **Humidity Control:** Avoid using BNA 2X Simple bond Epoxy in environments with high humidity to prevent potential color variation or surface issues.

### Compatibility Considerations:

- **Surface Testing:** Conduct a preliminary test on natural stone surfaces to assess resin absorption and potential staining issues.
- **Chemical Exposure:** Avoid using BNA 2X Simple bond Epoxy for grouting tanks containing aggressive substances unless permitted by the chemical resistance table.

### Mixing and Application Tips:

- **Component Mixing:** Ensure accurate mixing of Component A (Resin) and Component B (Hardener) to maintain product integrity.
- **Protective Gear:**

### Use proper personal protective equipment (PPE)

- during mixing and application to prevent irritation.
- **Tool Maintenance:** Change water frequently when cleaning tools to maintain efficiency and prevent residue buildup.

### Maintenance and Cleaning:

- **Bleach Avoidance:** Refrain from using bleach for maintenance and cleaning to prevent potential yellowing, especially on light-colored surfaces.
- **Adherence to Guidelines:** Adhere strictly to the application guidelines outlined in the technical sheet to ensure optimal performance and longevity of the grouted surfaces.

In summary, adhering to these precautionary measures will ensure the safe and effective application of BNA 2X Simple bond Epoxy, resulting in durable and visually appealing grouted surfaces.

## Environmental Safety:

- **Non-Corrosive and Environmentally Friendly:** Does not contain corrosive elements, posing no danger to the environment or users.
- **Transportation Compliance:** Classified as non-dangerous goods.
- **Low VOC Emissions:** Manufactured with low volatile organic chemical emissions.