



BONDIT SPECTRA-JOINT

Ultra-Grip

Nexgen Construction Supplements



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[An advanced Epoxy Technology]
A 3 Parts Impervious Epoxy Tile Grout

PRODUCT DESCRIPTION

Bondit Spectra-Joint Ultra-Grip is a 3 part, general purpose, water clean-up epoxy system for demanding environments. The use of advanced epoxy technology enables to form perfect aesthetics and offers parameters many times higher than given by traditional cement grouts.

FEATURES & BENEFITS

- Wide range of use
- Hygiene and safe of use
- Myco Protect (Fungi, Mould and Algae)
- Easy Use & Clean
- Excellent Workability
- Guaranteed Colour
- 100% Water Tightness
- Stain & Crack Free
- High Chemical and Temperature resistance
- High resistance to washing, scrubbing and abrasion
- Extraordinary mechanical durability
- Joint width, 1 – 15mm

WHERE TO USE – TILES/STONES

- Ceramic Tiles
- Vitrified Tiles
- Glass Mosaic Tiles
- Marble
- Agglomerates (Engineered Stones)
- Metal Tiles and Aluminium Sheets
- Precast Terrazzo Tiles

WHERE TO USE-AREAS

- Interior and covered exterior
- Floors and walls
- Residential, Commercial, Public-Access.

APPLICABLE STANDARDS



EN 13888, Category: RG
ISO 13007, Part-4, Category: RG
ANSI A118.3.

PACKAGING

Components	1.05 kg kit	5.25 kg kit
Part-A	90g	450g
Part-B	210g	1050g
Part-C	750g	3750g

COLORS

- Stable and uniform colours for all types of Tiles/stones
- A wide range of colours available in Part-C. Please refer the Grout colour chart.

COVERAGE

Please refer the Coverage Chart as the grout consumption depends on the width and the depth of the joints and the type and size of the tiles/stones used.

SHELF LIFE

2 Years in original packaging in dry place at temperature >0°C to <45°C.

TECHNICAL DATA

Chemical base	Part-A, Hardener, Part-B, Resin & Part-C, Colored Filler Powder
Mix ratio	Mix the components in full vessels
Density after mixing the components (Part-A, B & C)	1650±10% kg/m ³
Pot Life	approx. 60 minutes
Joint width (min./max. thickness)	1mm/15mm
Temperature of use	-20°C to +100°C
Working temperature	+15°C to +35°C
Cleaning	30-45 minutes
Walk on time	approx.24 hrs.
Full mechanical (load bearing) resistance	after 7 days
Full chemical resistance	after 7 days
Temperature resistance	-30°C to +100°C (dry heat)
Shear adhesion strength according to EN 12003 (N/mm ²)	Initial: 27 After water immersion: 25 After thermal shock: 27
Flexural strength (EN 12808-3) (N/mm ²)	42
Compressive strength (EN 12808-3) (N/mm ²)	60
Resistance to abrasion (EN 12808-2)	140 (loss in mm ³)
Water absorption (EN 12808-5) (g)	0.05
Shrinkage EN (12808-4) mm/m	< 1.5
Chemical Resistance	See the table

All measurements are taken at +23°C and 55% Relative humidity (approx.) Specification may vary according to site conditions and should be taken as a guide only.

DIRECTIONS FOR USE

Test the product in an inconspicuous area first.

SURFACE PREPARATION

- Before jointing, ensure that the Tile Adhesive is sufficiently set hard. This usually requires 24 hours with the majority of Tile Adhesives.
- Remove any spacer lugs; rake-out any excess adhesive and any loose or foreign material from the grout joints.
- Remove any dirt and stains, and repair any cracks. Please do not clean tiles with acid cleaners. In case acid cleaners were used, ensure to wash with plenty of water before commencing grouting.
- In general, ensure grout joints are clean and dry.
- Substrate temperature must be between +15°C to +35°C.

MIXING

- It is recommended that the system be prepared using a slow speed electric drill fitted with a suitable paddle (approx.400 rpm)
- Maintain the ratio as given.
- Initially add the Part-A to Part-B in a clean bucket and mix thoroughly. Ensure they are combined well.
- To this mix, while stirring with a mixing paddle attached to a drill, slowly add the Part-C.
- Continue to mix until the color is uniform and free of lumps of powder.

APPLICATION

1. Work the grout into the joints in a diagonal motion using a rubber float or squeegee.
2. Ensure that the grout is worked into the joint and does not sit on top or “bridge” it.
3. Remove excess grout from the surface of the tiles using a diagonal motion.
4. Grout only 2 to 4 square metres at a time before clean up.
5. Use a damp sponge to clean up the remainder of the grout. Rinse the sponge regularly with clean warm water for best results.
6. Do not flood the floor with water. Ensure the sponge is kept clean and the water is changed regularly.
7. Remove any excess moisture from the grout joints, to avoid discolouration or colour variations.
8. Allow the grout to cure before exposing to the intended environment.

GROUTING THE JOINTS (Injection Method)

- Produce a homogeneous mixture of components and pour it into another suitable vessel fill it through a single-hole pressure disk into the cartridge.
- Screw on a nozzle that matches the joint width and inject the epoxy grout void- and bubble-free into the joints.
- Skim off any excess material with the epoxy grout float.

CLEANING

- Initial cleaning: 30-45 minutes after the application.
- The grout work must be cleaned and finished while the product is still wet and in any case in the shortest possible time, 30-45 minutes.

- Take care not to remove product from the joints or leave stains on the tile surface.
- Cleaning and finishing can be performed either manually or using an electric single-brush machine equipped with a felt disc.
- Final Cleaning: <24 hours
- Haze or residues of the Epoxy grout can be removed within 24 hours.
- The time of hardening depends greatly on the environmental temperature.

GENERAL

- It is recommended to check the colour of the grout if it meets the desired colour of the client,
- It is strongly recommended that in each case sufficient tests are conducted with actual tiles/stones at sites to check the suitability of our products for their intended use as some kinds of tiles (anti-slip, textured)/stones have rough, microporous surfaces, making them susceptible to staining and very difficult to clean.
- Movement joints, peripheral joints according to EJ-171 must be provided to accommodate movements in tile/stone. Use an appropriate flexible sealant. Non-provision of movement joints will lead to cracks and breakage of grout joints/tile/stone. Do not use this product in movement joints.
- After grouting in open areas such as swimming pools, it must be covered and protected from sunlight. Keep the cover for 7 days and until filling pools with water.

CHEMICAL RESISTANT TABLE

(The table is a summary of chemical resistance made according to EN 12808)

CHEMICAL RESISTANCE ON INDUSTRIAL FLOORS

Group	Name	Conc. %	CONTINUOUS USE				Intermittent Use
			24 hours	7 days	14 days	28 days	
Acids	Acetic Acid	2.5	●	●	●	●	●
		5	●	●	●	●	●
	Hydrochloric Acid	37	●	●	●	●	●
	Citric Acid	10	●	●	●	●	●
	Lactic Acid	2.5	●	●	●	●	●
		5	●	●	●	●	●
		10	●	●	●	●	●
	Nitric Acid	25	●	●	●	●	●
		50	●	●	●	●	●
	Oleic Acid	-	●	●	●	●	●
	Vitriol	1.5	●	●	●	●	●
		50	●	●	●	●	●
		96	●	●	●	●	●
Tannic Acid	10	●	●	●	●	●	
Tartaric Acid	10	●	●	●	●	●	
Oxalic Acid	10	●	●	●	●	●	
Alkalis	Ammonia in Solution	25	●	●	●	●	●
	Caustic Soda	50	●	●	●	●	●
	Sodium Hypochlorite Conc. CL active	>10	●	●	●	●	●
	Caustic Potash	50	●	●	●	●	●
	Sodium Bisulphite	10	●	●	●	●	●
Concentrated Solutions 20°	Iposulphite Sodium		●	●	●	●	●
	Calcium chloride		●	●	●	●	●
	Sodium Chloride		●	●	●	●	●
	Ferric Chloride		●	●	●	●	●
	Sugar		●	●	●	●	●
Oils and Fuels	Petrols, Fuels		●	●	●	●	●
	Turpentine		●	●	●	●	●
	Gas Oil		●	●	●	●	●
	Olive Oil		●	●	●	●	●
	Lube Oil		●	●	●	●	●
Solvents	Acetone		●	●	●	●	●
	Ethylene Glycol		●	●	●	●	●
	Glycerine		●	●	●	●	●
	Ethyl Alcohol		●	●	●	●	●
	Solvent Petrol		●	●	●	●	●
	Peroxide Water	10	●	●	●	●	●
25		●	●	●	●	●	

Key

- Excellent Resistance
- Good Resistance
- Poor Resistance

Although the information provided on this technical sheet represents the best of our knowledge and experience, it is intended purely as a guideline. The user must carry out preliminary practical tests for each specific job and is solely responsible for the final result.

PLEASE NOTE

- Do not mix the product with water or solvents.
- The product's pot life and hardening time is strongly dependent on the ambient temperature. It can be accelerated or delayed.
- Epoxy Grout will yellow over time. White or light colored grouts may have a yellow tinge.
- Hardened product is very difficult to remove.
- Always test application and clean-up procedures before grouting the entire area.
- Clean-up of anti-slip or textured tiles will be more difficult. Therefore it is advised to pretest the method of clean-off before attempting to grout the entire tiled area.
- Staining may result on stone, unglazed or porous tiles.
- The product contains sand. Polished or soft glazed tiles may scratch.
- Do not use in movement joints, use an appropriate flexible sealant.
- Not suitable in areas where the grout will be exposed to harsh chemicals such as strong/ concentrated acids and alkalis or strong solvents
- Colour may vary from those on grout charts.

SPECIFIC

For other uses not mentioned in these instructions, please contact Technical Services, Bondit.

SAFETY PRECAUTIONS

- SDS is available from www.bondit.in
- It is recommended that applicators wear gloves and safety goggles while handling this product
- Keep out of reach of children.
- If eye contact occurs, rinse with cool water.
- If ingested get immediate medical assistance.

MAINTENANCE

This product requires no maintenance but proper installation according to instructions. Performance and durability may depend on properly maintaining of installed area and associated.

WARRENTY

This product is free from manufacturing defects and will not undergo decomposition, deterioration/disintegration under normal usage and conditions for a period of 2 years from the manufacturing date when installed in accordance with Bondit specifications and industry standard guidelines subject to terms and conditions stated in Bondit product warranty.

TECHNICAL SUPPORT


Technical information and guidance regarding BONDIT range of admixtures, repairs and bonding, water proofing systems, epoxy industrial flooring systems etc, will be available from the technical services department, BONDIT CONSTRUCTION CHEMICAL PVT LTD.


IMPORTANT NOTE

BONDIT products undergo high standard quality checks and every reasonable precaution is taken in the manufacture of all products. BONDIT continuously strive to ensure the products, recommendations, specifications & information given is reliable, correct and accurate. No specific guarantee can be assured as product performance depends not only on quality but also on many other factors which are not under our control. The customer should make his own trials to determine the compatibility of the product for his own purpose. All products are sold subject to our standard terms and conditions of sale.

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