



DUPOXY™

HIGH PERFORMANCE EPOXY GROUT

EPOXY BASED GROUT WITH GEL TECHNOLOGY

Dubond's DUPOXY is thixotropic two part epoxy based formulation having excellent resistance to wear and European choice special sheen effect which makes it a darling choice of consultant fraternity. It is a state of grouting material of highest quality that provides aesthetic effect and durability. It perfectly prevents stains, spillage, chemical attack in filled groove thicknesses of tiles, stones.

- Part A consists of a mixture of epoxy resin, siliceous aggregates and additives.
- Part B consists of mixture of organic catalysts.

The advantage of two part epoxy grout system of Dupoxy is its high user friendliness. The filling of this gel filler in the grout is easier than all the distantly following equivalent products. It has a matt finish with an ingredient that provides crystalline sheen effect with ease of clean ability. It is suited for residential and commercial installations including those with total hygiene control, damp and wet environments.

Areas of Application

Suitable for resistant installation and grouting of floor and wall tiles and mosaic in interiors and exteriors with grout joints between 2 to 15 mm wide, such as :

- Floor and wall tiles in general
- Floor and wall tiles in bathrooms and showers
- Under floor heating
- Kitchen counter tops
- Terraces and balconies
- Dairy & food processing plant
- Dubond's Dupoxy can be used for the grouting of ceramic tiles in environments submitted to direct contact with foods, like workbench of meats, dairy products of floor, basin for fish breeding, workbench in restaurant and bakeries.
- Suitable for applications where surfaces are exposed to aggressive chemical substances such as dairies, laboratories, pubs, food factories in general.
- Also recommended for grouting swimming pools and tanks containing thermal or brackish water.

Features & Benefits

Dupoxy is easy to apply and easy to clean that lends the following advantages when used correctly:

- Extremely easy application and to clean even compared to normal cementitious sealants.
- Stable and uniform coloring for all types of tiles with exclusive colour effects.
- High mechanical strength & hardness.
- Very low water absorption.



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- Total absence of cracking or crazing during hardening.
- Excellent chemical resistance.
- Excellent bonding.
- Uniform colors, resistant to weathering agents.
- Optimum hardness and ability to withstand heavy traffic.
- Stain free
- UV resistance

■ Suitable substrates :

- Concrete
- Brick masonry
- Concrete masonry
- Cement mortar beds
- Gypsum wallboard
- Ceramic tile and stones
- Exterior glue plywood
- Non-water soluble cut-back adhesive
- Vinyl or other resilient tile
- Plastic laminate
- Cement backer board
- Steel
- Cement plaster
- Cement terrazzo

■ Method of Application :

Preparation of substrates

1. Before grouting check that tiles have been laid correctly and are anchored perfectly to the substrate. Substrates must be perfectly dry.
2. Fill joints in accordance with the recommended waiting time indicated on the relative data sheet for the adhesive used.
3. For mortar substrates, wait at least 7/14 days depending on screed thickness, ambient weather conditions and on the level of absorption of the covering and the substrate.
4. Any water or moisture rising can cause vapour pressure to accumulate, which may in turn loosen the tiles on account of the complete inabsorbency of the grout or of the tiles themselves
5. Joints must be free from any excess adhesive, even if already hardened, further more they must be of an even depth on the whole width of the tile covering, thereby ensuring maximum chemical resistance.
6. Any dust and flaky parts must be removed from joints by carefully cleaning them with electric dust extraction equipment.
7. Before grouting, check the cleanability of the tile covering, as porous or highly microporous surfaces may make cleaning difficult. It is advisable to perform a preliminary test on tiles not to be laid or in a small, concealed area. In this case we recommend treating the covering with specific protective products, being careful to avoid applying it to the joints

Preparation

1. DUPOXY is prepared by mixing together Parts A and B from the bottom upwards, using a low-rev (400/min.) helicoidal agitator, respect the preset ratio of 5 : 1 of containers. Part A = 2 parts by weight & Part B = 1 part by weight (two parts are pre batched in their respective containers)
2. Pour Part B into the bucket containing Part A, being careful to mix the two parts uniformly until a smooth even coloured mixture is obtained. Only mix an amount of grout that can be used within 1 hour at +23 °C, 50% R.H.
3. The containers of DUPOXY must be stored at a temperature of +20°C for at least 2/3 days prior to use.

Higher temperatures will result in the mixture being too fluid and hardening too quickly, while lower temperatures will make the mixture harder to apply and will slow down setting, which is inhibited at temperatures of below +10 °C

■ Application

1. DUPOXY must be applied evenly on the tile covering with a hard rubber spreader.
2. Seal the joints by completely grouting them, applying the filler diagonally to the tiles.
3. Remove most of the excess grout immediately using the spreader, leaving only a thin film on the tile.
4. Right after this start to clean up the tile surface.

5. On completion, to clean the tiles use a thick, hard and large-sized sponge damped in clean water to avoid removing grout from the joints. Use circular movements to soften the film of grout on the tiles and finish cleaning the joint surface. Specific high-dispersion polymers ensure all grout residues are removed using only a small amount of water, which would otherwise impair the final chemical resistances.
6. Rinse frequently to ensure clean water is used at all times, using appropriate trays and grills with cleaning rollers, if necessary, replace the sponge or felt cleaning pad when saturated with grout.
7. Finish cleaning up by dragging the sponge diagonally across the tiles to avoid going into the joints. Any remaining grout marks can be removed before they harden with a 10/20 % water-alcohol solution

Colors

Sky color	> More than 50 colors available.
Star track	> More than 50 colors available.
Night vision	> Green, Red, Blue, Yellow.
Metalic	> 8 colors available.

For further detail see grouts colour chart.

Technical Information

Appearance	Part A : Thick colored gel Part B: soft gel
Mixing ratio	Part A : 2 parts by weight Part B : 1 parts by weight (The two parts are pre-batched in their respective containers.)
Mix consistency	Creamy
Specific gravity of mix	1.55 kg/l
Pot life	About 45 minutes at +23° C
Permitted application temperatures	From + 12°C to +30°C
Recommended application temperature	From +18°C to +23°C
Walk on time	24 hours at 23° C
Ready for use	5 days at 23°C
Joint width	From 2mm to 15 mm

Performance

Shear adhesion strength	Initial	> 2 N/ M²	(EN 12003)
	After immersion in water	> 2 N/ M²	
	After thermal shock	> 2 N/ M²	
Abrasion resistance	= 250 mm³		(EN 12808-2)
Mechanical flexural strength after 28 days in standard condition	= 30 N/ mm²		(EN 12808-3)
Mechanical compressive strength after 28 days in standard conditions	= 45 N/ mm²		(EN 12808-3)
Shrinkage	= 1.5 mm/m		(EN 12808-4)
Water absorption after 4 hours	= 0.1 g		(EN 12808-5)
Temperature of use	From - 20°C to +100°C		
Chemical resistance	See chemical resistance table		

■ **Precautions & Limitations :**

- Do not use on joints less than 2 mm or more than 15 mm in width,
- Do not use on porous flooring for which more specific or alternative chemical resistances are required compared with those listed in the chemical resistances table,
- Do not use to fill elastic expansion or fractionizing joints or on substrates that are not fully dry and subject to moisture rising.

■ **Coverage**

Refer the coverage table.

■ **Packing**

1 Kg container & 5 Kg container.

■ **Shelf life & storage**

24 months in the original packaging in dry place

■ **Health & safety precautions :**

Always use protective gloves and eyewear both during mixing and during application avoid any contact with the eye. If in case happens do not rub, clean with plenty of fresh water immediately.

DISCLAIMER The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.

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