

asiAmORTAR
Deliver Solutions

EPOXIBOND 203

DESCRIPTION

EPOXIBOND 203 is a 2-part chemical resistant, solvent free epoxy tile adhesive and grout suitable for tile fixing, sealing, grouting and repairs. It is available in white and grey colour.

USES

EPOXIBOND 203 is used where tile fixing and grouting are required. EPOXIBOND 203 is suitable for bonding quarry and ceramic tiles to concrete or steel.

It is also suitable as a multipurpose adhesive for bedding and repairs and can be use in the food industry. EPOXIBOND 203 is resistant to water after setting.

ADVANTAGES

- Easy to apply; fast application possible.
- Easy to clean up; can be washed off with water until initial set.
- Excellent working time and gives long adjustability time.
- Waterproof; unaffected by water when cured.
- Chemically resistant; highly resistant to a wide range of industrial chemicals.
- Excellent adhesion to steel, concrete and tiles.

METHOD OF USE

Surface preparation

Ensure surfaces free from dust, loose particles and grease. Oil and grease contaminated concrete surfaces should be treated with a degreaser and then washed well with clean water. Steel surfaces should be grit blasted to SA 2 ½ and the adhesive applied within 3 hours of blasting.

Mixing

Stir the base and hardener components individually to re-disperse any settlement. Then mix the base and hardener until a uniform paste is obtained.

Application

Spread the mixed adhesive using a serrated trowel or comb over the surface. Tiles should be placed within open time of the adhesive.

Cleaning

Before initial set, the adhesive can be removed from tiles and tools using a damp rag or hard sponge. After initial set, the use of xylene and /or mechanical removal is necessary.

HANDLING

Store the product in dry conditions and protect from contact with any water. At temperatures below 10°C, crystallization may occur.

CONSUMPTION

EPOXIBOND 203 depends on joint depth, joint width and the dimensions of the tiles used.

The following table showed some examples and the respective approximate consumption values (kg/m²):

| | | | | | | |
|---|-----|-----|-----|-----|-----|-----|
| Joint width/mm | 5 | 5 | 5 | 8 | 8 | 8 |
| Joint depth/mm | 5 | 8 | 10 | 7 | 10 | 13 |
| Tile dimensions/mm | | | | | | |
| 150 x 150 x 13 (=12r.m. joint/m ²) | 0.6 | 0.9 | 1.0 | 1.2 | 1.7 | -- |
| 100 x 100 x 10 (=18r.m. joint/m ²) | 0.8 | 1.3 | -- | 1.8 | - | - |
| 100 x 200 x 17 (=13r.m. joint/m ²) | 0.6 | 0.9 | 1.1 | 1.3 | 1.7 | 2.4 |

In case of pointing, excess material always has to be washed off and hence an additional consumption of up to 0.4kg/m² should be allowed for, depending on the care in application as well as the surface condition.

SPECIFICATIONS

EPOXIBOND 203 meets the requirements of ANSI specification A118-1976.

| | |
|----------------------------|-----------------------|
| A: B ratio | 3:1 w/w |
| Density | 1.60g/cm ³ |
| Pot life | |
| at 10°C | 90 mins. |
| at 23°C | 45 mins. |
| at 30°C | 30 mins. |
| Min. temp. for application | + 8°C |
| Water absorption | 0.6% |
| Weight loss | 0.1% |
| Linear shrinkage | 0.1% |
| Compressive strength | 80 N/mm ² |
| Flexural-Tensile strength | 40 N/mm ² |
| E-Modulus | 8000N/mm ² |
| Bond sheer strength | 7 N/mm ² |
| Linear Shrinkage | 0.1% (28 days) |

SAFETY PRECAUTIONS

Avoid contact with the skin and eyes. In case of contact with skin and eyes, rinse immediately with plenty of water and soap, and seek medical advice. Wear suitable gloves and eye protection. Avoid inhaling vapours and ensure good ventilation when working in a closed environment.

PACKING

EPOXIBOND 203 is available in 5 kg units.

SHELF LIFE

The shelf life for EPOXIBOND 203 in unopened and undamaged packaging is 12 months.

| CHEMICAL RESISTANCE | | |
|-------------------------------------|-----------------------|-----|
| <u>ACIDS</u> | | |
| Formic acid | up to 10% | 0 |
| Chromic acid | up to 10% | 0 |
| Acetic acid | up to 10% | + V |
| Tannic acid | up to 10% | + |
| Carbonic acid | up to 10% | + |
| Lactic acid | up to 10% | + 0 |
| Phosphoric acid | up to 10% | + |
| Nitric acid | up to 10% | + V |
| Hydrochloric acid | up to 10% | + V |
| Sulphuric acid | up to 10% | + V |
| Tartaric acid | up to 10% | + |
| Citric acid | up to 10% | + |
| <u>LYES</u> | | |
| Ammonia | Concentrated | + |
| Milk of Lime | Saturate | + |
| Sodium Hydroxide Solution | Up to 50% | + |
| Solvent and Various Chemical | | |
| Acetone | | 0 |
| Anthracene Oils | {1 % actic chlorine } | + |
| Chlorine Bleaching Solution | Up to 40 % | + V |
| Formaldehyde | | + |
| Glycerine | Saturated | + |
| Urea | | + |
| Heating Oils | | + |
| Hydraulic Oil | | + |
| Koresin | Saturated | + |
| Solution Od Sodium Chloride | 2 % | + |
| Phenol | | + |
| Solvent Napthta | | + |
| Turpentine | | + |
| Test Benzene | | + |
| Hydrogen Peroxide | Up to 30 % | + V |
| <u>OTHER</u> | | |
| Bear | | + |
| Fruit Jiuce(apple) | | + |
| Red Wine | | + V |

| | | |
|-------------|---|--|
| KEY: | + | No Changes |
| | 0 | Resistance to loads for sort time periods (2 -3 days) |
| | V | Colour Changes |

Asia Mortar

Singapore • Malaysia • Vietnam • China

Tel: +65 6269 5575 • +60 6 4416 818 • +84 8 3820 8686 Email: info@asiamortar.com Website: www.asiamortar.com

This information in this catalogue is provided to the best of our knowledge from results gathered both internal and external credited laboratories. However, we have no control over site applications, site conditions and workmanship of the applicator. We therefore will not accept any liability, either directly or indirectly arising from the misuse of these products or when the product is used not in accordance with any advice, specification, and recommendation of information given by us. The user is responsible for checking the suitability of these products for its intended use.