



Introduction

BYM Max Shield is a solvent free, three components, chemical resistant, hard wearing and impervious epoxy tile grout. It is supplied as a three component system in pre-weighed quantities ready for on-site mixing and use which is specially formulated epoxy resins and hardeners and graded filler. It is designed for grouting glazed tiles, mosaic, vitrified and fully vitrified tiles, ceramic tiles, industrial tiles, granites, marbles & other natural stones, etc.

Technical Data

Form of pack(A)	Clear Viscous Liquid
Form of pack(B)	Yellow Viscous Liquid
Form of pack(C)	Colored powder
Mixing Ratio (Part A, B and C) by wt.	1.8 part of Pack A mix and 0.7parts Pack B and 7.5 part of Pack C
Consistency of mix	Smooth Thick Paste
Mixed Density	1.70 ± 0.05 kg/ liter
Joint Width, mm	2 - 15
Solid Content, %w/w (Part A)	More than 99.5
Solid Content, %w/w (Part B)	More than 99.5
Pot life @ 27±2°C, Minutes	65 Min. approx.
Sag Flow@ 27±2°C, mm	Nil.
Open Time @ 27±2°C, Minutes	30 Min. approx.
Compressive Strength @ 7 days	> 50 N/mm ²

Application Areas

BYM Max Shield is suitable tile grout to fill the joints of tiles of kitchen, bathrooms, shower, pool bowl, Terraces, Shopping malls & Show rooms, Hotels, Kitchens & Bathrooms Swimming pools, Residential and commercial buildings. And all types of tiles.

Color

BYM Max Shield comes in 10 shade color and on demand color is also available

Advantage

1. Highly resistant to a wide range of industrial chemicals
2. Suitable for wet areas – especially important when tiles are in areas exposed to moisture, such as swimming pools.
3. Permanent locking of colours between joint.
4. High quality UV stable colour
5. No stain on grout joints.
6. Maintaining the perfect look in all weather conditions during active use

The information contained in this technical data sheet is given to the best of our knowledge and the results from extensive testing in order to remain as objective as possible. However, it cannot, in any case be considered as a warranty involving our liability in case of misuse or any different use of our products from the "Application" paragraph of this technical data sheet. Some application tests should be carried out before using the product to ensure that the methods of use and conditions of application of the product are satisfactory. Our technical assistance is at the disposal of the users.



7. Hygiene, antibacterial & does not allow fungal growth by itself.
8. Almost waterproof by its nature.
9. The ability to replace tile glue, which is important for mosaics or panels
10. Drying without cracks
11. With the help of it, can be filled 2 to 15 mm joint gap.
12. Lack of reaction to temperature changes
13. Very high compressive and abrasion resistance.
14. Smooth and shiny flush joints between tiles & stone.
15. Easy to mix, apply and water cleanable at site.
16. Durable and long-lasting.
17. Highly thixotropic in nature
18. Low VOC

Method of use

Surface Preparation

First check that tiles or stone are fixed properly and are not sounding hollow. In case sounding hollow, first repair or replace the area. Joints should be clean and free from all foreign material such as oil, grease, dust etc. Grout remover tool also can be used in case old grout to be removed.

Mixing

The material is supplied in three parts, which are premeasured. Pour Part A and part B in a bucket. Mix both parts carefully with the help of a mechanical stress until a smooth mixture is obtained. Add required content of part C (powder) for desired consistency.

Application Method

It can be applied by trowel or putty blades to fill gaps which formed at the time of tile fixing. Spread the grout evenly on the surface of tiles or stone to cover the area. Once grout is spread, fill the joint completely using rubber grout float. Keep the rubber float diagonally to the joint and apply 45-degree angle to have perfect filling. Once all the joints are filled properly, remove excess grout if any from the surface of tiles or stone.

Cleaning

Cleaning is required to finishing of tile fixing. Use a hydro sponge to emulsify the surface and clean the grouts in a circular motion. Use a small amount of warm water. Change the water and clean or substitute the sponge regularly



Coverage

Consumption can be calculated by given formula: -

Coverage (Kg/m²) =

$$\frac{(\text{Tile length} + \text{Tile breadth}) \times \text{Tile thickness} \times \text{Joint width} \times \text{Mixed density}}{(\text{Tile length} + \text{Joint width}) \times (\text{Tile breadth} + \text{Joint width})}$$

*Mixed Density = 1.70 ± 0.05 kg/ litre

Shelf Life & Storage

Shelf life is 18 months from the date of manufacturing. Store in a cool & dry place in unopened condition.

Precautions

In case working in external area under sun, avoid applying grout on hot surface and in joint. First, let cool the surface of tiles or stone and don't work under direct sun. Hot surface may compromise final performance of grout.

In case surface of tiles or stone are absorbent, then before starting the application, first apply the grout in small test patch area.

Do not increase or decrease its mixing ratio than the recommendation.

Do not return chemicals to their original packaging. An incompatible mixture may accidentally be formed

Safety

- It should not come in contact with skin and eyes or be swallowed. Avoid prolonged inhalation of vapors.
- Some people are sensitive to epoxy resins, therefore, protective gloves, goggles and barrier creams should be used.
- If mixed resin comes in contact with skin, it must be removed before it gets dry by washing with soap and plenty of clean water.
- Never eat, drink, smoke or apply cosmetics while working

Packing

1/5 KG