

MasterTile[®] RSG 705

High performance epoxy grout for bedding and grouting tiles in heavy duty conditions

DESCRIPTION

A three component epoxy resin based adhesive and grouting system for paviours, ceramic and acid resistant tiles, in medium and heavy duty corrosive and hygienic environments.

PRIMARY USES

MasterTile RSG 705 is an ideal material to bed and grout tiles in a single operation with one material. It is used wherever a high degree of chemical resistance and excellent mechanical properties are required.

ADVANTAGES

- Non-absorbent easy to clean and hygienic in service.
- Dual purpose: bedding and grouting of tiles with the same material.
- Excellent resistance to a wide range of chemicals and acids.
- Impermeable: resistant to staining and absorption when permanently immersed in water.
- Will not support bacterial growth in kitchens, swimming pools etc.
- Non-tainting and non-toxic: can be used in most areas where drink and foodstuffs are processed.
- Excellent adhesion to most commonly encountered building substrates and materials.
- Water miscible: tools and equipment can be cleaned with water and uncured material can be wiped off tiles with a wet cloth following grouting.
- Excellent proven performance.
- Suitable for vertical and horizontal applications in interior and exterior locations.

PACKAGING

MasterTile RSG 705 is available in 6 Kg packs.

TYPICAL APPLICATIONS

- Food production: meat, fish, vegetable and fruit processing, canning areas, dairies and bakeries.
- Industrial kitchens and catering facilities.
- Electrical substations and plant rooms.
- Laboratories.
- Swimming pools and leisure facilities.
- Heavy duty workshops, garages and services facilities.
- Bottling plants and breweries.

TYPICAL PROPERTIES

Density:	1950 kg/m³
Pot life:	60 mins @25°C 30 mins
	@40°C
Flexural strength (BS 6319 Part 3):	35.5 N/mm²
Compressive strength	99N/mm²
Tensile strength (BS 6319 Part 7):	15 N/mm²
Max. Service temp.:	60°C

STANDARDS

ANSI A118.3

APPLICATION PROCEDURE

BEDDING:

To the prepared surface apply a solid bed of adhesive to a minimum thickness of 3mm. Ensure that the size of the working area can be tiled within the pot life of the **MasterTile RSG 705**. On vertical applications the adhesive must be applied with a notched trowel to leave a ribbed bedding.

TILING:

Tiles and paviours should be pressed firmly into place with a twisting motion until properly aligned and bedded. On vertical applications tiling should begin from the bottom upwards. Ensure that at least 75% of the tile back is in contact with the adhesive. A minimum width of 3mm must be left around tiles for grouting.



GROUTING:

The grouting operation can be carried out simultaneously with the application of the bedding mortar or after the bedding mortar has set. When proceeding with one continuous operation, apply extra thickness in the bed to allow for material to ooze through the gaps once tiles are pressed onto the adhesive. The grout is then trimmed off and grouted joints are finished with a spatula or palette knife. Where grouting is to be carried out after the bed has set and tiles are permanently fixed in place apply the epoxy grout to the joints by plastic spatula and finish off. Following the grouting operation use a fibrous pad or wet soft cloth to clean off the excess material. This should take place within 15 minutes and care should be exercised not to use excess water or allow water to come into contact with the wet grout. Surplus material must be removed from the face of the tiles before it sets.

CURING

Good curing is essential for resin based materials to ensure specified performance. A minimum temperature of 10°C should be maintained during the curing period by the use of additional heating if necessary. Installations using MasterTile RSG 705 systems can be opened to foot

traffic after approximately 24 hours at 20°C. Complete cure is achieved after 72 hours at 20°C.

COVERAGE

Coverage rates are dependent on the specified tile or paviour dimensions. A 150 x 150 x 20mm tile would require the following:

roquiro ino i	onomig.	
Bedding	3mm:	6Kg / m²
Jointing	3mm:	1.6Kg / m²
	6mm:	3.3 kg / m²

For $150 \times 150 \times 4$ mm the coverage rate would reduce by 80%.

All calculated usages assume constant thickness on a regular substrate. Failure to achieve the required surface will lead to additional material being used.

WATCHPOINT

Movement joints should be provided in accordance with normal practice. Refer to BS 5385.

CHEMICAL RESISTANCE

Excellent resistance to most aqueous systems including sewage, urine, salt water, dilute acids, battery acids, alkalis, oils and fats.

APPLICATION

The application and use of **MasterTile RSG 705** should be in accordance with the relevant international tiling codes practice.

PREPARATION:

Ensure all laitance and contaminants such as oil, grease and coating systems are removed by either mechanical wire brushing or grit blasting. The surface should be dry and any dust should be removed by an industrial vacuum. The surface should contain no more than 5% moisture and any major repairs in the form of damaged arrisses, cracks and honeycombing should be repaired with the appropriate Master Builders Solutions repair system. Where minor blemishes like blowholes exist, these can be filled out simultaneously with the bedding adhesive when it is applied.

Prior to application, **MasterTile RSG 705** systems should be stored under cover and protected from extremes of temperatures which may cause inconsistent workability and cure times for the mixed material. Ideally, at least 24 hours before mixing, **MasterTile RSG 705** systems should be maintained at approximately 20°C. During application in cold conditions, correct conditioning can help, but application should be halted if the ambient temperature is likely to fall below 10°C. Consideration should be given to the substrate or base slab as it is likely to be considerably colder than the surrounding air temperature. When temperatures exceed 30°C during application, working times may be reduced by as much as 50%.



MasterTile[®] RSG 705

MIXING:

MasterTile RSG 705 is of a heavy consistency and should be mechanically mixed.

Using a slow speed electric drill with a paddle attachment, pour the reactor (Part B) into the base tin (Part A) and mix for approximately 2 minutes or until a uniform consistency and colour is obtained. Pour the mixed resin into a forced action mixer (such as a Mixal) and slowly add the filler (Part C) mixing until a lump free, uniform consistency is achieved.

In most applications the full contents of each

component pack should be mixed together. However, where necessary, up to 0.6kg of the Aggregate component may be omitted to facilitate application at low temperatures, to improve the application properties on floors or to aidapplication into narrow joints.

STORAGE

Store under cover out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air conditioned environment. Shelf life is 12 months in unopened containers stored as above.

SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Reseal containers after use. For further information, refer to material safety data sheet.

QUALITY AND CARE

All products manufactured by Master Builders Solutions Egypt, or imported from Master Builders Solutions affiliate companies world- wide, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems described in the ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007 standards.

* Properties listed are based on laboratory controlled tests.

® Registered trademark of a MBCC Group member in many countries of the world

Master_Builders_Solutions_CC-EG/Tile_TSG 705_09_10/v1/06_14

MBS Construction Chemicals Egypt (S.A.E), Business Park A, Building A1, Cairo Festival City, Ring Road, New Cairo, Egypt Hotline: 15560, Phone: +202 2128 7800, Fax: +202 2128 7801 Website: https://www.master-builders-solutions.com/en-eg

