

MasterTile[®] 706

High performance epoxy adhesive for all types of wall and floor tiles, natural stone, glass mosaics and agglomerates

DESCRIPTION

A two-component epoxy resin-based adhesive for permanent bedding of all types of tiles, natural stones and agglomerates.

TYPICAL APPLICATIONS

MasterTile 706 is used wherever a high degree of chemical resistance and high mechanical properties are required.

Areas of application:

- For indoor and outdoor use.
- For walls and floors.
- For chemical-resistant and water-impermeable laying of wall and floor coverings made of ceramic tiles, mosaic as well as bricks on renders, cement screeds, concrete and timber chipboards.
- For ceramic coverings in dairies and bakeries, soft drink industries, Industrial and canteen kitchens, butcheries, slaughter houses, fat processing industries, battery rooms, galvanization, electrical substations and plants rooms, dye works, bleaching works, tanneries, paper mills, laboratories and hospitals.
- For laying of ceramic tiles in swimming pools, hot springs, baths in hospitals as well as for ceramic tiles in shower facilities or wellness areas.
- For ceramic tiles in administration buildings, hotels, schools, toilets, sewage plants, sewers, cattle stabling and for stairs exposed to de-icing salt.

ADVANTAGES

- Non-absorbent easy to clean
- Resistant to chemicals, a variety of acids, lye, grease and oil
- Water impermeable and water vapour barrier protects moisture-sensitive substrates from water and moisture
- High wear resistance, resistant to rolling and grinding loads, insensitive to cleaning by steam jet
- Will not support bacterial growth in kitchens and swimming pools
- Crack-free curing and shrinkage free setting
- Resistant to frost and weathering, multi-purpose use for vertical, horizontal, external and internal applications
- High mechanical strength, low modulus of elasticity and therefore superior to cement-based joint grouts
- Workable and easy to apply
- Almost odourless, no unpleasant odour during the application
- Tools and equipment can be cleaned in warm water
- **MasterTile 706** meets the classification requirements R2T Class according to EN 12004

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APPLICATION

Consumption (Ready mixed material) Tile Laying	
Required notch size	
- 4 mm	approx. 1.67 kg / m ²
- 6 mm	approx. 2.50 kg / m ²
- 8 mm	approx. 3.16 kg / m ²
Coverage* Tile Laying	5 kg of MasterTile 706
Required notch size	
- 4 mm	3 m ²
- 6 mm	2 m ²
- 8 mm	1.6 m ²
Thickness of adhesive bed	from 2 mm
Working temperature	+5°C to +40°C
Working time**	approx. 45 min
Open time**	- 25°C 60 min - 40°C 30 min
Curing times** Laid flags	
- grout able on walls	approx. 4 h
- walkable/grout able on floors	approx. 16 h
Cleaning / Emulsifying	20-30 min
Temperature resistance	-20°C to +60°C

* The consumption rates of dry powder are based on lab trials and might vary subject to variation of subfloor level and surface regularity.

The reverse profile of the used ceramic and the surface structure of the substrate to be covered are also important factors, besides the tile size, for the consumption of mortar. The indications refer to the installation of slightly profiled non vitrified or vitrified tiles on render or cement screed.

** At +23°C and 50% relative humidity. Higher temperatures reduce, lower temperatures increase the times given

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TECHNICAL DATA – MATERIAL

Material base	Epoxy resin system with fine fillers and pigments
Max. service temp	60°C
Density	1550 kg / m ³
Components	2 part
Packaging	5 kg combined unit (Incl. hardener)
Shelf life	12 months
Storage	in dry conditions, no permanent storage over +30°C
Color	White & Grey

APPLICATION GUIDELINES

SURFACE PREPARATION

Ensure that all bond inhibiting materials are removed; the surface should be dry, clean and dust free. Moisture content of the substrate should not be higher than 5% and any necessary repair work should be carried out prior to tiling, for further advice contact Master Builders Solutions Technical services.

MIXING

MasterTile 706 must be mixed with a suitable drill and mixing paddle. Add PTA and PTB and mix until a uniform colour and consistency are obtained.

BEDDING

Apply the mixed **MasterTile 706** to the substrate using a suitably sized notch trowel i.e: 4 mm, 6 mm or 8 mm depending on the size and thickness of the tile. Solid bed fixing can be achieved by back buttering the tile with a thin layer of **MasterTile 706** before fixing into the notched bed. Ensure that the size of the area can be tiled within the pot life of the **MasterTile 706**.

TILING

Tiles should be pressed into place and properly aligned when bedded, ensure at least 80% of the tile back is in contact with the adhesive. A minimum tile joint width of 2 mm must be left for the grouting and 3 mm where thicker tiles are used.

CURING

Normally reactive resin products require at least 7 days curing @ 25°C to achieve the specified performance and service expectations. At lower temperatures the curing period will be extended.

CHEMICAL RESISTANCE

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

WATCHPOINTS

- Vertical fixing of tiles with the **MasterTile 706** is possible, large format very heavy tiles may need additional support to prevent slippage.
- Movement joints where appropriate should be filled with PCI Silcoferm S silicone sealant, for normal practices refer to the BS Standard 5385.
- Tiling should be in accordance with relevant international Codes of Practice.
- Generally, exposure to high exterior temperatures of 40°C will have some effect on the tiles and pot life of the grout (*the surface temperature of the tiles could exceed 60°C*). Do not add water or solvents.

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STORAGE AND SHELF LIFE

Prior to application the **MasterTile 706** components should be stored under cover and protected from extreme temperatures as this could contribute to inconsistent workability. When temperatures exceed 40°C during application the working time may be reduced by as much as 50%. Shelf life is 12 months when product is stored in shaded areas in unopened containers.

HEALTH AND SAFETY

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 originating from Master Builders Solutions Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001 and ISO 14001.

* Properties listed are based on laboratory controlled tests.

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NOTE

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Master Builders Solutions
Construction Chemicals LLC
P.O. Box 37127, Dubai, UAE
Tel: +971 4 8090800
www.master-builders-solutions.com/en-ae

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