BOB MAST
Backbone of Builders

PRODUCT DATA SHEET

BOB MAST TECHNICAL

High Tensile Strength With High Modified Polymer

BM-545 (S1) TILE ADHESIVE

BOB MAST BM-545 is a premium grade, cement-based wall and floor tile adhesive, which has excellent flexibility. It has superior workability and is ideal for fixing fully vitrified, porcelain, mosaics and non-moisture sensitive natural stone and tiles.BM-545 is suitable for use in both internal and external applications and is especially suited to high performance situations with heavy pedestrian traffic e.g. shopping centres.

BOB MAST BM-545 accommodates shrinkage movement associated with early age concrete and screeds. It can be used over concrete that is at least 7 days old.

BM-545 has no vertical slump and non-shrink for a level finish. its white colour adhesive is suitable for lighter coloured stone and tiles.

BM-545 is water-resistant and suitable for continuous water immersion. It is the ideal adhesive for tiles installed in permanently damp or wet applications, including swimming pools, shower enclosures, bathrooms, ponds and water features.

Advantages

High Flexible	:	Fully vitrified and ceramic tiles, porcelain, natural stones (excluding moisture sensitive), glass and porcelain mosaics.
Easy To Use	:	Negates the need for liquid polymer additives.
Water resistant	:	Suitable for permanently damp or wet applications.
Superior Technical Properties	:	High performance for commercial, industrial and residential tile installation.
Non Slump + Extended	:	For a level finish, and high efficiency tile installation open time

C2TES1 Classification according to EU norms

Product Attributes

Uses

Substrates	:	Concrete Floors: New concrete should be at least 21 days old and if smooth, the surface should be roughened to obtain a good bonding key. Ensure release agents are removed from concrete surfaces, especially on tilt up slabs. Old concrete surfaces must be cleaned thoroughly prior to tiling.
Cement Screeds	:	Cement screeds should be at least 7 days old.
Tile/Stone	:	For fixing premium stone, marble (Internal /External Area upto 30ft Hight) porcelain and larger format tiles.
Surfaces	:	Walls and floors. Suitable for permanently damp or wet applications and for continuous water immersion (e.g. swimming pools, shower enclosures, etc.)
Location	:	Interior and exterior (providing surfaces are not subject to movement).
Performance	:	Residential, commercial and industrial.

For more information on suitable substrates or substrates that are not listed above, please contact a BOB MAST Representative.

Colour	:	White and Grey.
Packaging	:	20kg HDPE bag.
Coverage	:	20kg will cover approximately 50SQFT using a trowel on a consistently flat surface.

**Coverage will vary depending on trowel notch size, type and size of tile and substrate smoothness and evenness.*

Shelf Life & Storage	:	12 months when stored in a dry place in the original, unopened packaging. Do not store on concrete floors. High levels of humidity will reduce the shelf life of the product.

Technical Data

Product Identity

Form	:	Powder
Colour	:	white and grey

Application Properties

Setting Time	:	24 hours
Pot Life	:	1 hour
Adjustability Time	:	30 minutes
Open Time	:	35 minutes

**Application properties are dependent on temperature and relative humidity.*

Typical Performance

28 Days Tensile Bond Strength ≥ 3 N/mm2

7 day + 21 Day Water immersion ≥ 3 N/mm2

Deformation ≥2.5mm

Classification according to EU Norms C2TES1

Installation

Surface Preparation Remove any dust, oil, grease and all loose contaminating materials. Ensure surface is dry before tiling with no residue or permanent damp. Surface must be consistently level or flat, and firmly fixed.

Water Ratio 1 bag to 5 litres of water.

Mixing Add powder to water and mix to a thick, smooth consistency. Allow to stand for approximately 5 minutes. Stir the mix again and the adhesive is ready to use. Under no circumstances should more water be added to the mixture once the product has exceeded its pot life.

Application Ensure the back of the tile is free from dust. Use a 10 x 10 x 10mm notched trowel for floors and a 6 x 6 x 6mm notched trowel for walls (a 10 x 10 x 10mm notched trowel is recommended for larger wall tiles). Do not apply BM-545 at a bed thickness greater then 12mm.

Do not spread more than 1 metre of adhesive at a time to ensure the adhesive does not skin prior to bedding the tiles. Press and slide the tile at right angles ensuring the tiles are well bedded and there are no voids under the tiles. Make sure the newly tiled surface is not disturbed for a minimum of 24 hours. Allow to dry before grouting with BOB MAST EPOXY GROUT (see Related Products).

Drying Time Approximately 24 hours depending on surface porosity and ambient temperature.

Cleaning Clean any excess adhesive from tiles, tools and hands with water while material is still wet.

Attention

Do not use for tiling directly over timber floors or where movement is anticipated. Contact BOB MAST for further advice and alternative suitable products.

Always mix the product mechanically, and allow

the product to stand for 5 minutes. Re-mix and the product is ready for use.

Do not apply in temperatures above 45 degrees Celsius.

High temperature working – always spread smaller amounts of adhesive to avoid the adhesive skinning prior to bedding the tiles.

Safety Precautions All cement-based products are alkaline and can cause irritation. Although this product is not considered hazardous, a dust mask should be worn when handling the material. Contact with the eyes and repeated and prolonged skin contact should be avoided.