



MATADHESIVE

Hydrophobic flow bed adhesive, rapid setting

- Tested according to DIN EN 12004, C2FTE S1
- Water repellent
- Rapid setting
- Easy to use
- Polymer modified
- For interior and exterior use
- Rapid hardening
- Thixotropic
- Efficient application
- **CE**



TECHNICAL FEATURES: MATADHESIVE is a thin-bed adhesive, for applications without voids in particular with profiled or large format tiles under time constraints. With MATADHESIVE is possible to obtain a void-free installation in one simple operation, avoiding the double application if a suitable installation technique is used.

AREAS OF APPLICATION: Component of the system to apply BSWATERMAT, PLURIPROOF and BSWTAPE on cementitious surfaces such as concrete, plaster, masonry and so on. MATADHESIVE is suitable as a thin-bed adhesive for the installation of vitrified, earthenware, clinker, mosaics and natural stone, materials not sensitive to discoloration or not translucent, especially on PLURIPROOF and BSWATERMAT.

MATADHESIVE è inoltre indicato per una sicura applicazione su tutte le superfici conformi come calcestruzzo, intonaco, cemento espanso, massetti e massetti riscaldati a base di cemento (CT) e di calcio solfato *(CA) , pannelli di gesso*, ecc.

*previa applicazione di BENFERPRIM o STARPRIM.



TECHNICAL
ASSISTANCE



INSURANCE
GUARANTEE



TECHNICAL
MEETINGS



PROFESSIONAL
USE

CONTRACT ITEM SPECIFICATIONS:

The waterproofing membrane BSWATERMAT (PLURIPROOF) and relative accessories (BSWTAPE), as well as ceramic floors and walls on it, must be laid with one-component, water repellent cementitious adhesive , conforming to EN 12004, C2FTE S1 MATADHESIVE by Benfer.

SUITABLE SUBSTRATES:

- Concrete
- Cement-based screeds, standard or heated with water system or electric resistance
- Cement-based plaster
- Waterproofing flexible made up of concrete and polymers (AQUASHIELD-2KF)
- Concrete blocks

INSIDE ONLY:

- Fluid cement-based screeds (prior application of an appropriate Primer if demanded), standard or heated with water system or electric resistance
- Fluid screed, anhydrite based (previously treated with an appropriate Primer), standard or heated with water system or electrical system.
- Old ceramic tiles (prior application of an appropriate Primer if demanded)
- Plasterboard standard or waterproofed
- Gypsum-based boards (previously treated with an appropriate Primer)

MAXIMUM SIZES:

- Internal floors with maximum length of longest tile side up to 360 cm
- External floors with maximum length of longest tile side up to 120 cm
- Internal walls coverings with maximum length of longest tile side up to 360 cm
- External walls coverings with maximum length of longest tile side up to 90 cm

See the choice guide to verify size limits by tile/substrates characteristics

METHOD OF USE:**SUBSTRATES PREPARATION:**

The substrate must be dry, sound, suitably flat, free from penetrating cracks, holes, voids and be free from separating substances such as oil, paint, laitance and loose components. It must have an extensively closed surface, which must be in an appropriate condition with appropriate strength. When fixing tiles, the substrate, preparation and workmanship must be in accordance with UNI 11493-1. Prime porous substrates with BENFERPRIM. Anhydrite screeds must be abraded, vacuumed and as with all calcium sulphate substrates, primed with BENFERPRIM or STARPRIM. Before tiling heated screeds, they must be commissioned in accordance with recognized technical regulations. Carry out moisture measurements with a carbide hygrometer (CM device) to determine the readiness of a substrate to receive finishes. Moisture measurements may not exceed:

- Cement screeds $\leq 2.0 \%$
- Calcium sulphate screeds without underfloor heating $\leq 0.5 \%$
- Calcium sulphate screeds with underfloor heating $\leq 0.3 \%$

It is possible to install BS WATERMAT when there are high levels of residual moisture.

MIXTURE PREPARATION:

Mix MATADHESIVE to a smooth mortar with clean water, in a clean mixing vessel, using a slow speed drill and appropriate mixing paddle (300 - 700 rpm). To install the waterproof membranes, use approx. 8.5 litres of water per 25 kg bag of MATADHESIVE in order to achieve good wetting out of the membrane. For a non-slip consistency for fixing tiles and slabs reduce the water quantity.

MIX RATIO:

6.5 litres water : 25 kg MATADHESIVE.

Leave to stand for 3 minutes before remixing. Do not mix more adhesive than can be used within the pot life.

Fixing BS WATERMAT/PLURIPROOF:

Comb out the MATADHESIVE on to the substrate approx. 10 cm wider than the relevant membrane with a 6 mm notched trowel. Pre-cut the strip with a knife or scissors and lay in the adhesive (print uppermost). Then carefully press the appropriate waterproof membrane firmly into the adhesive bed with a steel trowel. Ensure the membrane is bedded extensively free from voids and that it is wetted out.

Fixing BSWTAPE technology as joints in the BS WATERMAT and PLURIPROOF (wall/floor junction, gaskets etc.) is also generally carried out with the MATADHESIVE. In wet duty exposures falling under classification C, BSWTAPE should be installed with REVOFLEX.

Spread the MATADHESIVE approx. 1 cm wider than the BSWTAPE. Place the BSWTAPE in the fresh adhesive layer and push in evenly and without folds. Fixing must be carried out so that water cannot migrate behind the membrane. Due to the fleece laminated to the rear of the BS WATERMAT, bonding of jointing tapes and pre-formed pieces to the waterproof tape is always carried out to the printed upper face of the membrane.

Fixing tiles to the MATADHESIVE / PLURIPROOF:

In wall areas ceramic tiles can be fixed directly to the freshly adhered PLURIPROOF. Floor tiles can also be fixed to the freshly adhered PLURIPROOF or BS WATERMAT where suitable protective boards are used to stand on. Tiles and slabs are fixed directly to the PLURIPROOF or BS WATERMAT in the normal way. Spread the mixed adhesive onto the substrate and comb through with the appropriate trowel dependent on tile format. Fix tiles within the adhesive open time. In exterior and continuously wet areas, ensure tiles and slabs are solid bedded as far as possible.

INTERIOR: Lay the tiles while exerting a good pressure on the tiles surface, so that contact between tile and adhesive will be at least of 95-100%.

EXTERIOR: The contact between tile and adhesive must be 100% so to avoid the eventual rain infiltrations that in case of frost could cause the detachment of the tiles. Therefore, it is suggested to spread also a layer of MATADHESIVE on the back of the tiles.

ADVICE:

- When fixing natural and synthetic stone, observe the specific product properties of the material (tendency to discolour, risk of curling etc.) and the fixing recommendations of the manufacturer. Where doubt exists carry out a trial area.
- In order to avoid curling effects due to water absorption, we recommend that agglomerate/synthetic stone is fixed with BENFERJOLLY.
- Prime substrates with calcium sulphate binders with BENFERPRIM or STARPRIM.
- Do not re-life thin-bed adhesive, which has already begun to stiffen, by adding more water or fresh adhesive. There is a risk of inadequate strength development.
- Direct contact between cementitious tile adhesives and magnesite screeds leads to the destruction of the magnesite screed via chemical reaction.

- Negative pressure of water from substrates must be prevented with proper measures.
- When under continuous water immersion (swimming pools, containers etc.), we recommend the use of the system based thin-bed adhesives BENFERFLEX on the BENFER waterproof membrane suited for the conditions. Observe the specific properties of the material to be fixed.
- MATADHESIVE is a hydraulic setting mortar, that needs to be protected against water and frost penetration until fully hardened, which can last several days in unfavourable weather conditions.
- Protect areas, to which MATADHESIVE will not be applied, from its effects.

Observe the appropriate relevant technical data sheet for the named products.

Follow relevant current regulations. For e.g. DIN 18157, DIN 18195, DIN 18352, DIN 18560, DIN 13813, DIN 18202, DIN 1055

The BEB information sheets distributed by Bundesverband Estrich und Belad e.V.

The technical information "Coordination of cut-out areas in heated floor construction"

The ZDB information sheets distributed by the Fachverband des deutschen Fliesenegwerbes:

[*1] "Bonded waterproof membranes"

[*2] "Floor finishes on calcium sulphate screeds."

[*3] "Movement joints in ceramic wall and floor tile finishes"

[*4] "Heavy duty ceramic floor finishes"

[*5] "Ceramic tiles and slabs, natural stone and cement bound composite slabs on cement-based floor constructions with insulation."

[*6] "Ceramic tiles and slabs, natural stone and cement bound composite slabs on heated cement-based floor constructions."

[*7] "Finishes in exterior areas."

CLEANING: With water immediately after use.

PACKAGING: 25 kg bags with polythene liner in Europallet of 1.050 kg.

STORAGE: In a dry and cool place, in the original unopened packaging.

SHELF LIFE: 12 months. Use opened packaging promptly.

CONSUMPTION: The consumption changes according to planarity of the support, to the used trowel and to the laying system (simple or double gluing).

Support	Tiled surface	Laying System	Trowel Type mm.	Consumption kg/m ²
Interior floor	S<1100	simple spreading*	8/10	2,9/3,5
	1100<S<3600	double spreading	10	4,5
Exterior floor	400<S<1100	double spreading	8/10	3,9/4,5
	1100<S<3600	double spreading	10	4,5
Interior wall	S<400	simple spreading	6	2,3
	400<S<2000	double spreading	8/10	3,9/4,5
	2000<S<3600	double spreading	10	4,5

* For local classified U4 P4S and pools double gluing

PRODUCT TECHNICAL DATA

Classification EN 12004:	C2FTE S1
Basis:	Cement, aggregates, additives
Colour:	Grey
Apparent mass volume:	1,20 kg/dm ³
Maximum grain size:	0,5 mm
Storage and Duration:	12 months in the original closed package in a cool dry place
Danger of harm:	No, Possible irritation of the eyes and skin upon contact
Flammability:	No
Mixture ratio:	26%, 6,5 lt of water per 25 kg bag
Mixture consistency:	Creamy
Mass volume of paste:	1,65 kg/dm ³
Application temperature:	From + 5° C to + 35° C
Pot life:	Approx. 30 minutes
Open time:	Approx. 30 minutes
Vertical slip according to EN1308:	< 0,5 mm
Maximum thickness:	15 mm
Foot traffic after:	3 hours
Grouting:	3 hours
Full service conditions after:	3 days
Final hardening:	7 days
Final performance:	
Adhesion (after 28 days):	> 1,0 N/mm ²
Adhesion after warming:	> 1,0 N/mm ²
Adhesion after water immersion:	> 1,0 N/mm ²
Adhesion after frost-thaw cycles:	> 1,0 N/mm ²
Deformable according to DIN EN 12004:	2,5 mm
Temperature resistance:	From -30 °C to +90 °C
	* at 23°C and 50% relative humidity

PLEASE NOTE: The information given in this chart is based on our best experience and indicative only. It must in any event be verified by the end user, who assumes all liabilities deriving from utilization of the product.