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MULTIFIX-2C

HIGHLY FLEXIBLE THIN BED ADHESIVE

Product Description:

- Highly flexible
- For interior and exterior use.
- For critical substrates and heavy-duty use.
- For Conforms to DIN EN 12004, C1 TE S2.
- Also, for use on "green" substrates.
- Vapour permeable.
- Water impermeable.
- Water and frost resistant.
- Deformable to DIN EN 12002 \geq 30 mm.

Areas of Application:

MULTIFIX-2C is used as a thin adhesive, especially for the installation of vitrified tiles with lower water absorption \leq 0.5% (fully vitrified), vitrified tiles, clinker and mosaic onto "green" cement-based substrates. The high deformability of MULTIFIX-2C can largely compensate for the damaging shear stresses in the tiled finish and is therefore also especially suitable for the installation of large format tiles. MULTIFIX-2C is used primarily in floor areas. MULTIFIX-2C is especially suitable for use on balconies and terraces, in swimming pools and containers, on heated constructions, on "green" heavier duty cement-based substrates and for the installation of tiles with lower water absorption. Due to its high elasticity high stresses are also reliably accommodated with MULTIFIX-2C such as those that arise e.g., between substrate and tiled finish in exterior areas or when installing on "green, trafficked cement-based screeds (approx. 3 days after laving) and heated screeds. The vapour permeability of MULTIFIX-2C guarantees the

cement-based substrates, which are still damp, will dry out even when installing tiles early. The mandatory commissioning of heated screeds before installation of ceramic materials can be omitted. When installing natural stone materials make allowances for the specific product properties of the natural stone, sensitivity to discolouration and curling. MULTIFIX-2C is a system component of the bonded tile waterproof AQUAFIN[®]-2K/M MULTIFIX-2C. system + MULTIFIX-2C is suitable for use on mineral-based dispersion-based SCHOMBURG and bonded waterproof systems.

Technical Properties:

Basis: aggregate, cement.Colour: grey.Packaging: MULTIFIX-2C Part A 18 kg.Storage: dry, 12 months frost free, in
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Storage : dry, 12 months frost free, in
the original container.
Liquid Component
Basis : liquid polymer additives.
Colour : white.
Packaging : UNIFLEX-T Part B 6 kg.
Storage : dry, 12 months frost free, in the original container.
Mixing ratio : 18 kg powder: 6 kg liquid component: up to 1.6 litres water.
Application/ substrate
temperature : +5°C to 25°C
Pot life *) : approx. 2 hours.
Open time *) : approx. 30 minutes.



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Grout after *)	: 2 days at the earliest depended on the porosity of the substrate.
Foot traffic after *)	: 2 days at the earliest depended on the porosity of the substrate.
Fully serviceable	
after *)	: 2 days at the earliest depended on the porosity of
	the substrate.
Cleaning	: with water immediately after use.
Deformation	: 30.9 mm to DIN 12002 –
	without breakage of the test piece.
Consumption	: approx. 2.80 kg/m ² with a
	6 mm notched trowel.
	: approx. 3.70 kg/m ² with a 8 mm notched trowel.
	: approx. 4.70 kg/m ² with a
	10 mm notched trowel.
Foot Traffic	
Foot Traffic after *)	: 2 days at the earliest
	: 2 days at the earliest depended on the porosity of
after *)	: 2 days at the earliest
after *) Fully serviceable	: 2 days at the earliest depended on the porosity of the substrate.
after *)	: 2 days at the earliest depended on the porosity of
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*) These values relate to +20°C and 65% relative humidity, higher temperatures shorten and lower temperatures lengthen, these given times.

Substrate Preparation:

The substrate must be dry, load-bearing, adequately flat, free from penetrating cracks and free from separating substances such as e.g. oil, paint, laitance layers and loose constituents. It must possess a largely closed surface with a surface condition and strength in accordance with its type. DIN 18157, part 1 and the divergent application specifications of MULTIFEX-2C prevail when installing tiles regarding the substrate, substrate preparation and product application. Prime porous substrates with ASO[®]-Unigrund. Calcium sulphate screeds must be mechanically abraded, vacuumed and as with all substrates based on calcium sulphate binders, primed with ASO®-Ungrind-K diluted 1:3 with water. Heated screeds must be commissioned in accordance with recognized technical regulations before installing floor finishes to determine a substrate's readiness to receive finishes and carry out a moisture test with a carbide hygrometer (CM device).

The CM moisture readings may not exceed:

- CA without underfloor heating $\leq 0.5\%$.
- CA with underfloor heating \leq 0.3%.

Tiles can be installed with MULTIFIX02C on cement-based screeds as soon as they will take foot traffic, concrete substrates after 28 days, independent of the moisture content The CM readings are to be carried out in accordance with current FBH-AD work instructions taken from the technical information for the "coordination of cut out points in heated floor constructions". Unevenness in the substrate that is ready to receive tiles can be levelled out beforehand with SOLOPLAN®-30.

Product Preparation:

MULTIFIX-2C is a combination product supplied at a predetermined mix ratio. Firstly, add the liquid component B to a clean mixing bucket. Then add

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the powder component whilst stirring and continue to mix until a homogenous consistency s achieved. For ease of application up to a maximum of *% (approx. 1.6 litres) of water can be subsequently added. After a short standing time, stir the thin bed adhesive once again. Do not mix more MULTIFIX-2C than can be used within the pot life of approx. 2 hours.

Mixing Ratio:

18 kg MULTIFIX-2C: 6 kg MULTIFIX-B: dependent on the desired consistency, up to 1.6 litres of water.

Trowel MULTIFIX-2C onto the surface of the substrate and comb through with a notched trowel suitable for the tile size/material. Install tiles within the open time (finger test). In exterior areas and continuously wet areas ensure that as far as possible a void-free bedding of the tiles is achieved. Special trowels (e.g., HFV notch, Flowline) have proved successful for this purpose. A waterproofing function is achieved when MULTIFIX-2C is trowelled out at a uniform 2 mm ASO[®]-Joint-Tape 2000/ thickness. Apply performed pieces at wall/floor junctions or over movement joints, free from voids or folds, with MULTIFIX-2C. Joints are to be carried out by overlapping a minimum of 6 to 10 cm. Once the membrane has hardened then the tiles can be installed using previously mentioned be application technique.

Advice:

• The relevant regulations (DIN, ADB data sheets) still insist on keeping to a 28-day waiting time for cement-based substrates to receive finishes. Longstanding experience with the elastic thin bed adhesive MULTIFX-2C has shown that it is possible to safely achieve a damage-free installation even on "green" substrates.

- When combining "green" substrates and the installation of large format tiles, the size is to be restricted to a maximum of 50 cm x 50 cm. A minimum joint width of 3 mm is to be planned. When installing tiles greater than 50 cm x 50 cm the moisture content of the screed is to be additionally tested with a carbide hygrometer. Keep to a moisture content of ≤ 2 CM% for unbounded or floating cement-based screeds.
- It is a prerequisite that the following criteria are followed: the positioning of movement joints must conform to relevant regulations. Use a minimum trowel notch of 8 mm in order to be able to absorb minimal deformation within the substrate. Undertake the commissioning (heating up) of the screed from the 21st day after installation in conformance with relevant regulations (ZDB data sheet). The tile installation begins as early as possible depending on the ability to traffic the screed, as a rule after a minimum of 3 to 8 days. The screed must have achieved at least 70% of its final strength (normal after 7 days). Carry out grouting with hydraulically setting grouts e.g. ASO-Flexfuge or HF05-Brillantfuge.
- When working on "green" cement-based substrates (screeds, heated screeds) be aware of the diminished trafficking capacity of the screed construction. Do not store heavy tools, flooring materials, etc. on the screed, especially at fragile locations- implement load spreading measures.
- When installing natural and synthetic stone the specific properties of these products (tendency to discolour, risk of curling etc.) and the installation recommendations of the manufacturer are to be observed. In cases of doubt carry out a fixing trial. To avoid curling effects due to water absorption we recommend the use of ASODUR-EK98 with agglomerate/ synthetic stone.



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• To avoid curling effects due to water absorption we recommend the use of ASODUR-EK98 with agglomerate/ synthetic stone.

- Direct sunlight and draughts can lead to the early formation of skin or to a shortened open time.
- MULTIFIX-2C is a hydraulically setting adhesive with a dispersion copoint that until fully hardened is to be protected from water and frost penetration, which can take a few days under inclement weather influences/ climatic conditions.
- The fillings of pools, containers etc. may only be implemented after a minimum of 28 days.
- Areas not being treated are to be protected from the effects of MULTIFIX-2C.
- Avoid contact with the eyes and skin.
- Prime calcium sulphate based with ASO[®]-Unigrund-GE or ASO[®]-Unigrund-K (mix ratio 1:3 with water). To avoid the formation of ettringite with calcium sulphate-based substrates UNIFIX-AEK is suited for the installation on these substrates up to residual moisture values of 1.0& with heated and 1.5% with unheated construction, measured with a carbide hygrometer.
- Do not re-life adhesive that has already started to stiffen by adding more water or fresh adhesive as there is a risk of inadequate strength development.
- The direct contact between cement-based adhesives and magnesium screeds leads to the destruction of the magnesium screed via a chemical reaction. Moisture pressure from the rear of the substrate must be eliminated with appropriate measures. Mechanically abrade the magnesium substrate and prime with the epoxy resin ASODUR-V360W with the addition of max. 5% water as necessary. (approx. 250g/m²). Wait for approx. 12-24 hours at +20°C then apply a second coat of ASODUR-V360W (approx. 300-350 g/m²). Broadcast quartz sand of particle size 0.5-1.0 mm to excess into the wet second coat. After waiting

for a further 12-16 hours, installation may be commenced.

- In continuously wet areas (swimming pools, containers, etc.) ensure that, as far as possible, the lines are bedded free from voids. For this purpose, special trowels (e.g. HV notch, Flowline) have proved successful. The spreading of adhesive on the rear of tiles can be omitted with suitable installation techniques in so far as the floating uttering method has not been explicitly specified from a planning aspect. It is recommended to continually monitor the results of workmanship.
- Low chromate.

Please observe a valid EU Health & Safety Data Sheet (MSDS).



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