



**MORFICO**  
creator of construction materials

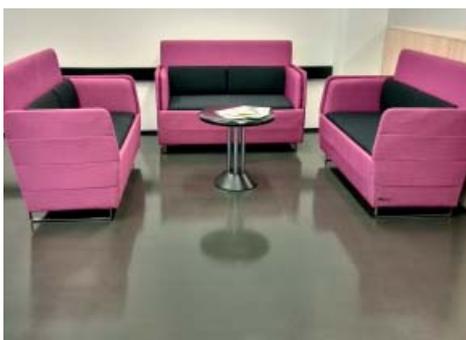
WITH US IN THE PLANE...



Dry construction mixtures

Anhydrite and cement cast laying screeds

Coatings materials





## Company introduction

MFC – MORFICO s.r.o. was founded in 1991 as a construction company specialising in the surface treatment of industrial concrete floors and areas. Since then, we have achieved a significant position in the construction market for the implementation of new and progressive technologies. The extensive experience acquired abroad has been used to develop our own products using domestic raw materials that guarantee high quality and productivity. We have gradually moved from applications to the production and sale of construction materials.

- Year 2000** Completion of the production line for dry building mixtures. The products are specifically designed for the surface treatment of concrete areas.
- Year 2002** Extension of the production programme for anhydrite cast laying screeds. The screeds are delivered to building constructions by concrete mixers or special application semi-trailers.
- Year 2004** Commissioning of a new production line for IZOBLOK wood-cement blocks that simultaneously form the concrete formwork and a thermal insulation carrier.
- Year 2006** Start of production of protective paints designed for special surface treatment of concrete surfaces and self-levelling screeds.
- Year 2008** Extension of services for the supply of cement cast laying screeds. These include transport, mixing the required amount, and pumping to the storage site using TransMix application trailers.
- Year 2010** Prefabrication of wall panels made from wood-cement blocks. Production of acoustic blocks for the surface treatment of noise barriers.
- Year 2012** Production of a special cement binder as an alternative to anhydrite screeds delivered to construction sites by TransMix and BREMAT application semitrailers.
- Year 2014** Construction of Brno, Prague and Hradec Králové filling and distribution centres for the expansion of services and the availability of our production.
- Year 2016** Expansion of the production of dry building mixtures for grinding decorative floors with MFC Terrazzo and MFC Micro Terrazzo.
- Year 2018** Construction of a new hall for the production of wood-cement blocks.

We currently offer a wide range of products that are used in the contemporary constructions of residential, civil and industrial buildings. We have built a top-quality network of business representation, application companies, dealers and consultants in the Czech Republic and abroad. We are holders of the ISO 9001 certificate.

Registered capital of 5 million CZK | Permanent Staff – 50  
Ing. Oldřich Fiala – Company Executive





## Cast laying screeds

### MFC Cast screeds 020

The material is used to level layers on new and old floors in civil and residential constructions as a base finish (e.g. for tiles, carpets, floating floors, PVC).

anhydrite binder cement binder

**MFC Anhydrit 020**      30–65 mm | 20, 25, 30 MPa

The cast laying screed compound has a calcium sulphate (anhydrite) base and is designed to be used as a levelling layer for floors and as a base under floor coverings in civil and residential constructions.

**MFC Thermio+**      25–40 mm | 30 MPa

A special cast laying screed with high thermal conductivity designed for hot-water and electric floor heating systems. The screed maximises the efficiency and comfort of heating and reduces energy demands.

**MFC Portland 020**      40–80 mm | 20, 25 MPa

A low-shrinking Portland cement cast laying screed, designed to be used as a levelling floor and as a base under floor coverings in civil and residential constructions.

**MFC Porocem 010**      40–200 mm | 300–800 Kg/m<sup>2</sup>

Cast laying cement foam designed for levelling and used to insulate floor layers and is especially recommended for use in residential, civil and industrial buildings. The foam forms an ideal base under cast anhydrite and cement screeds.



Semitrailer application

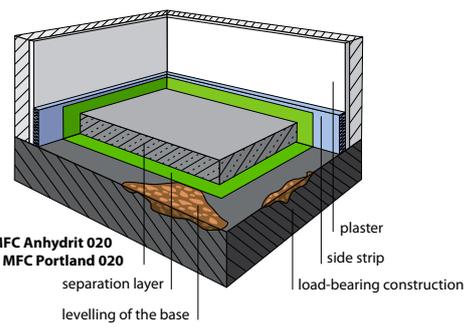
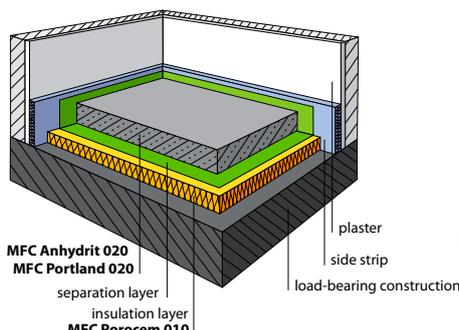
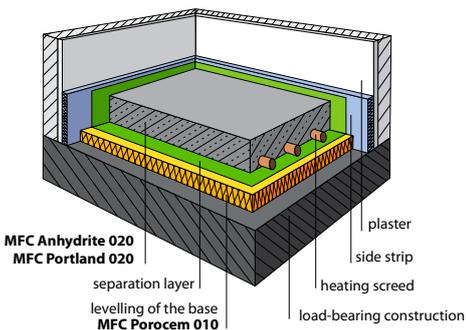
Cast laying screeds are delivered using mobile sets (Bremat and TransMix), which can economically and quickly mix the screed directly at the construction site, including pumping into the storage location.

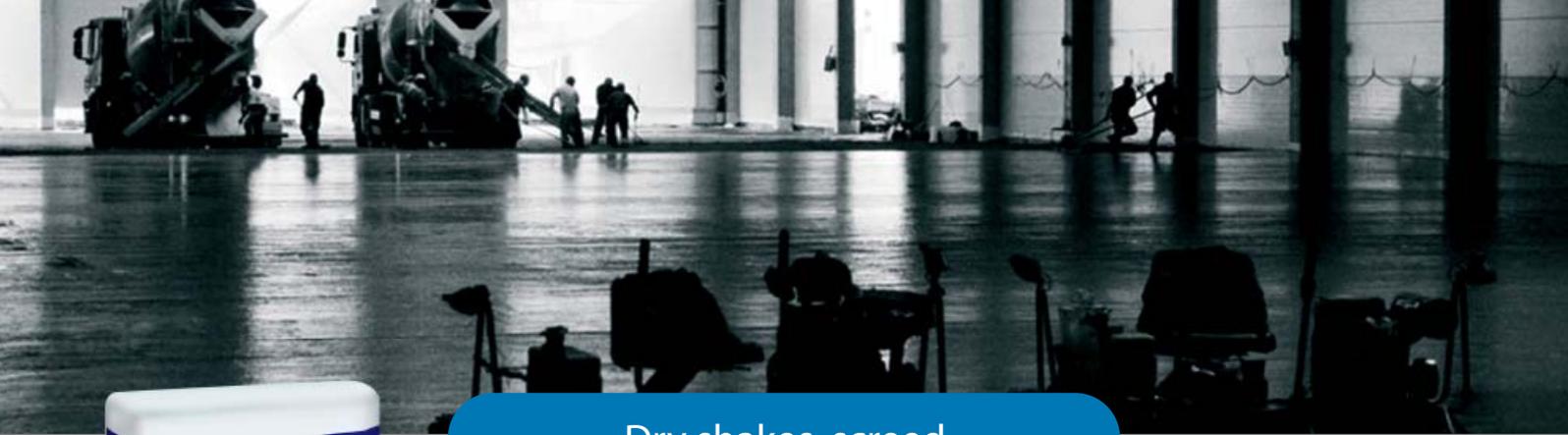
Dispatch points:  
Tišnov u Brna | Modletice u Prahy | Hradec Králové

Heating screed

Screed on insulation layer

Screed on separation layer





**Dry shakes, screed**

The „dry to wet “ system

**MFC Cobet 100**

The material is used for the surface treatment of freshly laid concrete floors in civil and industrial buildings and improves the workability, flatness, and abrasion resistance of the surface against mechanical stress.



**MFC Cobet 110**      2–3 mm | light use

**MFC Cobet 130**      2–3 mm | heavy use

MFC Cobet 110 (silicon) is used for the surface treatment of freshly laid concrete floors intended for light use in civil and industrial buildings.

MFC Cobet 130 (corundum/carbide) is used for the surface treatment of freshly laid concrete floors intended for medium to heavy use in civil and industrial buildings.

**MFC Cobet 115**      2–3 mm | medium to heavy use

**MFC Cobet 140**      2–3 mm | very heavy use

MFC Cobet 115 (Metallic) is used for the surface treatment of freshly laid concrete floors intended for medium to heavy use in civil and industrial buildings.

MFC Cobet 140 (carbide) is used for the surface treatment of freshly laid concrete floors with very heavy use in civil and industrial buildings.

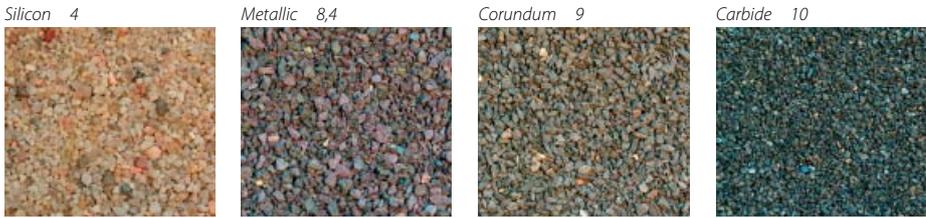
**MFC Cobet 120**      2–3 mm | heavy use

MFC Cobet 120 (corundum) is used for the surface treatment of freshly laid concrete floors intended for medium to heavy use in civil and industrial buildings.

**2018 NEW AND IMPROVED FORMULA**

- better workability and easier surface treatment by smoothing
- effective reduction of „faience“ fine shrinkage cracks
- increases resistance to fluids when used together with the new MFC Stoplak 2174 spray

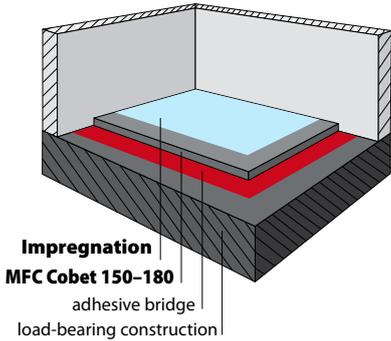
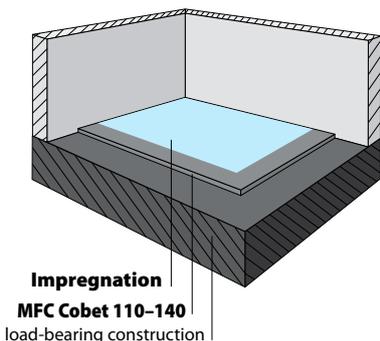
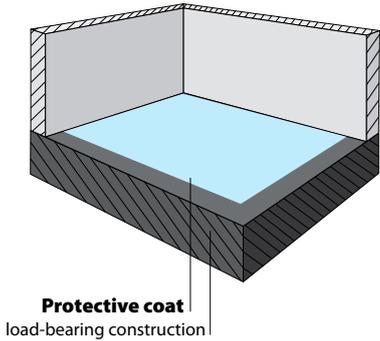
Hardness of the abrasion resistant filler according to Mohs:



Surface treatment of the concrete floor-coat

Surface treatment of the concrete floor with dry-shake

Surface treatment of the concrete floor with screed





## Repair screeds and mortars

### MFC Sanfix 200

The materials are used to repair local holes and cracks, floors, staircases, walls, corners, etc., as a protective filler or applied as the finishing layer on damaged concrete structures.

#### MFC Sanfix 230

1–50 mm | 2–3 hours

Fast-drying fine-grained mortar used to level the surface roughness of concrete, to seal holes and cracks in floors, to repair walls, staircases, corners, and to create sloping layers. It can also be used on wooden, stone and ceramic substrates. Additional layers can be applied after 2–3 hours.

#### MFC Sanfix 250

waterproofing

Two-component, permanently flexible waterproofing mortar for the protection of vertical and horizontal interior and exterior structures. Use before applying MFC repair mortars and as a waterproofing layer under slabs and tiles, in bathrooms, swimming pools, on balconies, terraces and tanks with drinking water.

#### MFC Sanfix 251

1–2 mm | 40 MPa

Fine-grained mortar designed to protect the steel reinforcement of concrete structures while also providing an adhesive bridge to ensure the cohesiveness of the newly applied layers to the substrate. Compliant with EN 1504-7 - protection against corrosion.

#### MFC Sanfix 260

5–50 mm | 45 MPa

Coarse filler mortar with fibres and low shrinkage; used to repair and reprocess of concrete structures. Complies with ČSN EN 1504-3, class R4.

#### MFC Sanfix 261

1–5 mm | 40 MPa

Fine finishing mortar with low shrinkage; used to repair and reprofile concrete structures. Complies with EN 1504-3, Class R3.

#### MFC Sanfix 270 NOVINKA

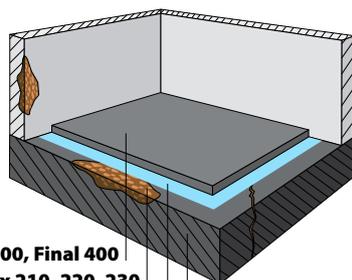
10–100 mm | 30 MPa

Fast-drying floor screed with low shrinkage used to level the surface roughness of concrete or to create sloping layers as a foundation under the floor covering in civil and residential constructions. Additional layers can be applied after 24 hours.

Key Benefits of MFC Sanfix 270:

- fast-drying - Ifloor coverings can be laid after only 24 hours!
- low shrinkage
- option to create sloping layers
- easy workability
- suitable for underfloor heating systems

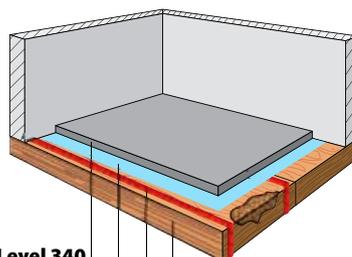
Rehabilitation of local pool holes and cracks



MFC Level 300, Final 400  
MFC Sanfix 210, 220, 230  
MFC Primer 620

load-bearing construction

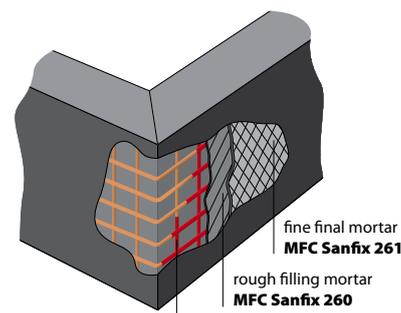
Levelling of the base during reconstruction of wooden floors



MFC Level 340  
MFC Primer 620  
MFC Sanfix 210, 220, 230

wooden floor

Repair system for ferroconcrete constructions



fine final mortar  
MFC Sanfix 261  
rough filling mortar  
MFC Sanfix 260  
anti-corrosion coat  
MFC Sanfix 251



## Self-levelling underlay screeds

The „wet to dry” system

### MFC Level 300

The material is used to level new and old floor layers (concrete, ceramic, wood) in civil and residential constructions as a basis for the final surface treatment (e.g. tiles, paint, flooring, carpets, PVC, epoxy and polyurethane coatings).

standard

special

#### MFC Level 304

1–5 mm | 25 MPa

Smoothing screed is used for levelling surfaces with minor roughness and is particularly used on concrete floors and sloping layers as a base under the floor covering.

#### MFC Level 305

5–30 mm | 30 MPa

The levelling screed is used to roughly level surfaces and roughness, and is particularly used on concrete floors and sloping layers as a base under the floor covering.

#### MFC Level 310

5–50 mm | 30 MPa

The levelling screed is used for levelling surfaces and roughness and is particularly used on concrete floors as an underlay for MFC Level 320 self-levelling screed or directly under floor coverings.

#### MFC Level 320

2–30 mm | 35 MPa

The underlay screed is used to level surfaces and fine roughness, particularly on concrete floors as the underlay for self-levelling screed or as a final surface treatment with a suitable coating for light use.

#### MFC Level 330

2–30 mm | 35 MPa

Fast drying underlay screed is used to level fine roughness, particularly on concrete floors as the underlay for self-levelling screed or as a finishing surface treatment with a suitable coating for light use.

Fast drying (24 hours)

#### MFC Level 330 FLEX

1–4 mm | 30 MPa

A two-component highly flexible system designed for the renovation and repair of old and cracked concrete surfaces, asphalt and wood substrates.

Highly flexible

#### MFC Level 340

5–50 mm | 35 MPa

The reinforced screed is used to level concrete surfaces, wooden floors, stone and ceramic flooring as a flexible levelling layer under the floor covering.

Contains fibres (wood, paving)

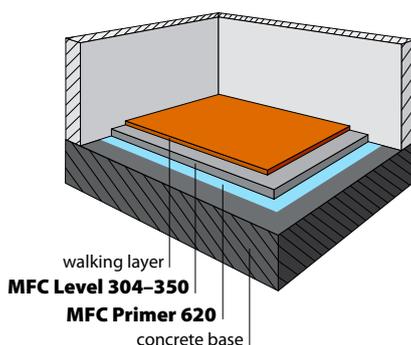
#### MFC Level 350

2–30 mm | 35 MPa

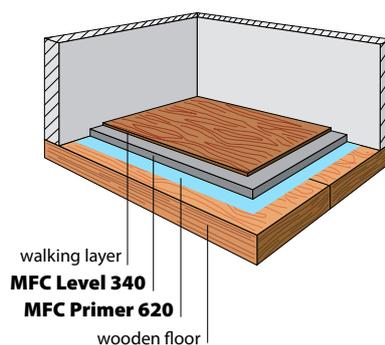
The screed is used with floor heating and to level concrete surfaces, wooden floors, stone and ceramic flooring as a flexible levelling layer for underfloor heating.

Contains fibres (floor heating)

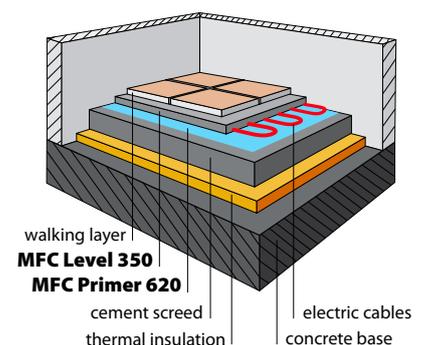
Levelling of the base under walking layer



Levelling of the base during reconstruction of wooden floors



Levelling of the base with electric floor heating





## Self-levelling industrial screeds

The „wet to dry“ system

### MFC Final 400

The materials are used for the final surface treatment on industrial floors (new and old), especially concrete surfaces subject to high mechanical stress (e.g. production halls, garages, warehouses, supermarkets).

medium to heavy use heavy use

#### MFC Final 410 4–15 mm | 40 MPa

Finishing self-levelling screed for medium to heavy use on new or old industrial concrete floors as a final surface treatment and is used for levelling surfaces affected by heavy wear, e.g. production halls, garages, warehouses, supermarkets, etc.

#### MFC Final 420 5–30 mm | 30 MPa

Base self-levelling screed is applied to old and damaged concrete substrates for rough levelling and compacting industrial floors before the application of MFC Final 410 or as a synthetic coating with a thickness > 2 mm.

#### MFC Final 430 5–15 mm | 45 MPa

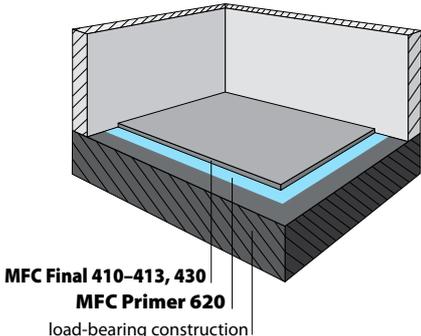
Finishing self-levelling screed for heavy duty use is designed for new or old industrial concrete floors as a finishing treatment for heavily stressed industrial and concrete areas, e.g. production halls, garages, warehouses, supermarkets, etc.

#### MFC Final 440 5–30 mm | 40 MPa

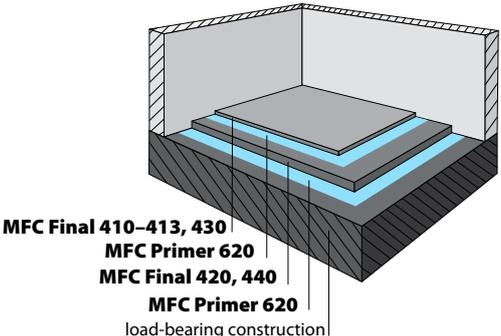
Base self-levelling screed for heavy use is applied to old and damaged concrete substrates for rough levelling and compacting industrial floors before applying MFC Final 430 or can be used as a synthetic coating with a thickness > 2 mm.



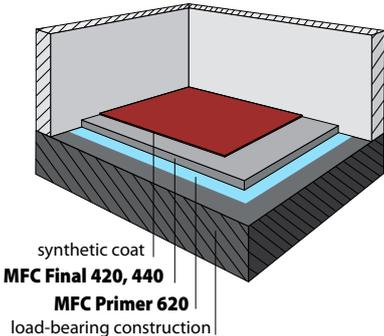
Final topping of industrial floors



Surface treatment with final topping with underlayment screed during reconstruction of industrial floors



Levelling of industrial floors under synthetic coat







## Adhesive and mortars

### MFC Festic 500

The materials are used for bonding tiles, paving and insulation systems to different types of substrates used in interiors and exteriors.

#### MFC Festic 510 C1 | interior

Cement adhesive for interior use for bonding absorbent ceramic tiles under normal operating conditions to traditionally solid substrates (plaster, concrete, aerated concrete, ceramic walls, etc.).

#### MFC Festic 511 C1TE | interior/exterior

Frost-resistant cement adhesive for use in interiors and exteriors for bonding medium-absorbent and absorbent ceramic tiles, paving and natural stone tiles under normal operating conditions to traditionally solid substrates (plaster, concrete, aerated concrete, ceramic masonry, etc.).

#### MFC Festic 512 C2TE | interior/exterior

Frost-resistant cement adhesive for use in interiors and exteriors for bonding all types of ceramic tiles (including highly-sintered) and natural stone coverings in environments with high demands for adhesion to the substrate (plaster, concrete, aerated concrete, ceramic masonry, drywall, wood, old tiling and paving etc.) and for bonding to heated cement screeds.

#### MFC Festic 512AE C2TE | interior/exterior

Highly flexible frost-resistant cement adhesive for use in interiors and exteriors for bonding all types of ceramic tiles (including highly sintered and large format) and natural stone coverings in environments with high demands for adhesion to the substrate (plaster, concrete, aerated concrete, ceramic masonry, plasterboard, wood, old tiles, etc.) and bonding to heated cement and anhydrite screeds.

#### MFC Festic 513 C2TE-S1 | interior/exterior

Highly flexible frost-resistant cement adhesive for use in interiors and exteriors for bonding all types of ceramic tiles (including highly sintered and large format) and natural stone coverings in environments with high demands for adhesion to the substrate (plaster, concrete, aerated concrete, ceramic masonry, plasterboard, wood, old tiles, etc.) and bonding to heated cement and anhydrite screeds.

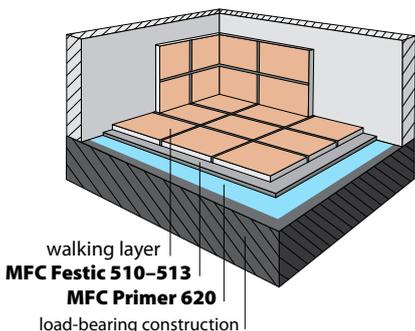
#### MFC Festic 520 BASIC

Frost-resistant adhesive and levelling screed for bonding thermal insulation boards from traditional polystyrene and mineral wool to solid substrates (plaster, concrete, porous concrete, ceramic masonry, etc.). When used with embedded reinforcement mesh, it is suitable for use as reinforcement and levelling screed for walls and insulation systems.

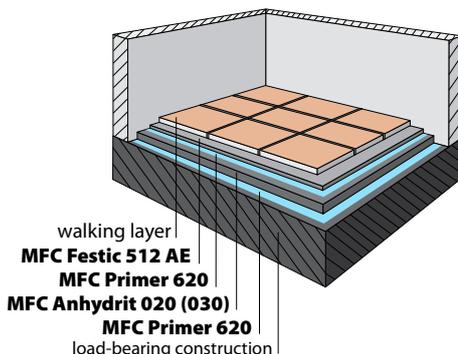
#### MFC Festic 521 PROFI

Frost-resistant adhesive and levelling screed for bonding all types of thermal insulation boards (EPS, XPS, Perimeter, mineral wool) to solid substrates (plaster, concrete, aerated concrete, ceramic masonry, etc.). When used with embedded reinforcement mesh, it is suitable as reinforcement and levelling screed for walls and insulation systems.

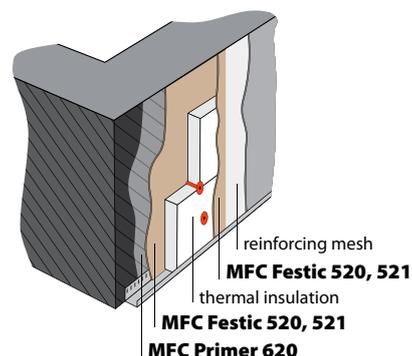
Sealing of tiles and flooring on traditional bas



Sealing of flooring on anhydrite coats



Sealing of polyester heat-insulation boards





## Impregnation, penetration, coatings

### MFC Protect 600

The materials are used to prepare substrates before the application of other layers or as the finishing surface treatment for concrete and self-levelling screeds.



#### impregnation penetration

##### MFC Stoplak 610 semi-matt surface impregnation

One-component transparent impregnation based on acrylate dispersion for treating new and old surfaces from MFC material and standard concrete surfaces. The impregnation improves mechanical and chemical resistance, facilitates the cleaning and maintenance of floors, and ensures uniform curing of freshly laid surfaces.

##### MFC Ekopox 630 gloss surface impregnation

Two-component transparent impregnation based on water dispersion of epoxy resin to specifically protect concrete surfaces, e.g. garages, warehouses, sales areas, etc. The impregnation improves mechanical and chemical resistance, and facilitates the cleaning and maintenance of floors.

##### MFC MC-DUR 2095 M matt surface impregnation

Two-component transparent impregnation based on water dispersed polyurethane for treating new and old surfaces from MFC materials or standard concrete surfaces. The impregnation improves mechanical and chemical durability and makes cleaning and floor care easy. It can also be used for the surface treatment of epoxy and polyurethane systems.

##### MFC Stoplak 2174 protection against water evaporation

One-component solution for solvent-based resins and especially designed as a protective layer to prevent the rapid evaporation of water from the surface of mechanically smoothed industrial floors with fillings as well as other cement-bonded screeds and mortars.

##### MFC Primer 620 substrate penetration

One-component penetration based on acrylate dispersion for closing and hardening substrates from concrete, ceramic, wood, etc. and as an adhesion bridge between the individual layers of MFC materials (MFC Sanfix 200, MFC Level 300 and MFC Final 400). Also prevents water leaking from the newly applied material into the substrate.

##### MFC Ekopox 660 substrate penetration

Two-component penetration based on the water dispersion of epoxy resin for closing and hardening substrates from concrete, ceramic, wood, etc., and wherever there is a strong requirement for a cohesive coating.

##### MFC Ekopox 661 substrate penetration

Two-component solvent-free epoxy resin penetration that closes and strengthens concrete and anhydrite substrates and acts as an adhesion bridge when subsequently sprinkled with silica sand.

##### MFC Ekopox 2020 QUICK quick substrate penetration

Two-component, epoxy resin-based penetration with quick curing to seal and strengthen concrete and anhydrite substrates.

##### MFC Ekopox 2060 penetration into oily substrates

Two-component primer based on epoxy resin with excellent adhesion to oily and greasy surfaces, and acts as an adhesive bridge when subsequently sprinkled with silica sand.

#### coatings rehabilitation

##### MFC Ekopox 640 concrete coating

Two-component coating based on the water dispersion of epoxy resins, fillers and pigments. The coating is designed as the finishing surface treatment for concrete surfaces with light loads.

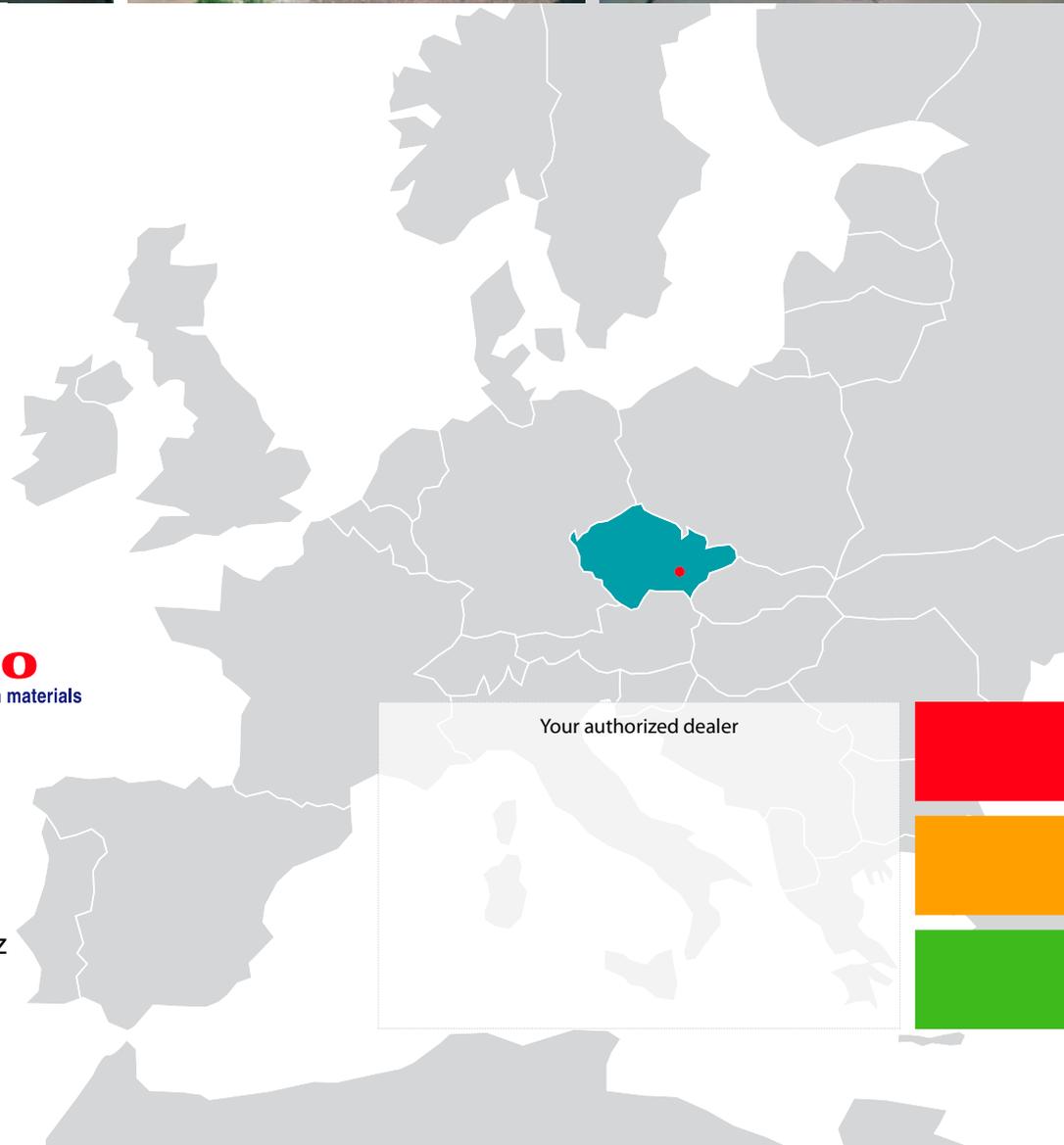
##### MFC Ekopox 670 repair of cracks

Two-component non-solvent epoxy resin with low viscosity for repairing cracks and joints in concrete, which also acts as a self-levelling screed, seals steel clips, repairs unpaved surfaces and can be used to inject cavities.



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MFC – MORFICO Ltd.  
Olbrachtova 1758  
666 03 Tišnov  
Czech Republic  
[www.morfico.cz](http://www.morfico.cz)  
e-mail: [morfico@morfico.cz](mailto:morfico@morfico.cz)  
Tel.: +420 549 410 141  
Fax: +420 549 410 089

