



MEP®.COL EXPRESS

Rapid setting tile adhesive - 6h (C2F)

- Rapid setting – 6h
- Suitable for large format tiles
- New and renovation work

PRODUCT DESCRIPTION

MEP®. COL EXPRESS is a rapid setting (6h) high performance cement-based polymer-modified tile adhesive

MEP®. COL EXPRESS is classified as a C2F under EN 12004

Adhesive tensile strength (C2), rapid setting (F)

USES

MEP®. COL EXPRESS is particularly suitable for areas requiring a rapid return to service (e.g. reception areas, corridors, exhibition rooms, staircases)

The product is designed for fixing large format tiles (up to 3600 cm²) and is suitable for fixing all types of ceramic, porcelain, vitrified tiles, granite and natural stone

- Interior wall and floor
- External floor (up to 3600 cm²)
- Pool or pond

FEATURES AND BENEFITS

- High performance adhesive tensile strength (C2) - Suitable for large format tiles
- Rapid return to service (6h)

TECHNICAL CHARACTERISTICS

REFERENCE MATERIAL

Product norm:	EN 12004
Test norms :	EN 1348
Flammability:	EN 13501-1
Good practices:	DTU 52.2

CHEMICAL CONTENT

Grey Portland cement, graded sand, specific additive and resins

TECHNICAL DATA

TYPICAL PHYSICAL PROPERTIES

Comply to norms EN 12004 / DTU 52.2

POWDER CARATERISTICS

Color:	Dark Grey
Powder density (kg/m ³):	± 1350
Particle size:	≤ 0.6 mm
Reaction to fire:	Euroclass A1

PASTE CARATERISTICS

Mixing ratio:	± 30%
Paste density:	± 1.7
pH:	≥ 12
Pot life:	≤ 30 hours
Open time:	≤ 15 min
Tile adjustment time	± 10 min
Application temperature:	+5 °C to +35 °C

HARDEN PRODUCT CARATERISTICS

Bed thickness:	2 to 10mm
Joint filling:	≥ 2 hours
Light foot traffic:	≥ 3 hours
Full load traffic:	≥ 8 hours

CEMENT-BASED ADHESIVE C2F

Initial tensile adhesion strength (6h)	≥ 0.5 MPa
Initial tensile adhesion strength (28days)	≥ 1 MPa
Tensile adhesion strength after water immersion,	≥ 1 MPa
Tensile adhesion strength after heat ageing,	≥ 1 MPa
Tensile adhesion strength after freeze-thaw cycles,	≥ 1 MPa

Note: setting times are quoted at 20°C and are temperature and humidity dependent

APPLICATION

COVERAGE

TILES	NOTCHED TROWEL	AVERAGE CONSUMPTION
≤ 500 cm ²	6 x 6 x 6 mm	standard bedding 3.5 Kg / m ²
		with back buttering 5 Kg / m ²
> 500 cm ²	10 x 10 x 10 mm	standard bedding 4.5 Kg / m ²
		with back buttering 6 Kg / m ²
	20 x 8 mm	standard bedding 5.5 Kg / m ²
		with back buttering 7 Kg / m ²

The coverage figure given is theoretical due to wastage factors and the variety and nature of possible substrates, practical coverage figures will be reduced

APPLICATION

Surface preparation

- Ensure that surfaces to be tiled are clean and free of dust, release agent, fungi
- Surface should be pre-wetted prior to application
- Very porous surfaces should be primed with **MEP®. PRIM GP** and allowed to dry (“touch dry”)
- All unsound areas, flaky or peeling layers must be removed and repair with **MEP®. REP SOL** prior tiling

Notes: New walls and floors must be allowed to cure for minimum periods to ensure that movement due to shrinkage does not affect the tiling

Mixing

Mixing ratio: 6 lts water per 20 kg bag

- Gradually add the powder into the required water quantity while mixing to avoid lumps forming
 - Mix thoroughly using a low speed mechanical mixer to a creamy consistency
- NB: MEP®. COL EXPRESS has a rapid setting time and therefore must not be applied on large surface to avoid exceeding of the open time*

Application

- Spread the adhesive onto the substrate covering 1 to 2 m² at a time
- Use a suitable notched trowel to achieved recommended bed thickness (*table. Coverages*)
- Large format tiles (or uneven tiles) will require back buttering with a thin coat of adhesive prior to bedding into the wet adhesive
- Bed tile firmly into wet adhesive by using a rubber mallet to ensure full transfer and optimum contact
- Carefully remove excess adhesive from the tiles and joints with a damp sponge, before it hardens

Grouting

- Leave for at least 2 hours before grouting
 - For swimming pools, leave at least 8 hours days before grouting
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- Use **MEP®. JOINT COLOR / LARGE / FLEX / RUSTIC / EPOXY** according to the project requirements

Allowance for movement

Flexible joints should be incorporated to allow for slight movements due to changes in temperature, humidity etc. as indicated by *DTU 52.2 / BS 5385*:

- Where the tiling meets other materials (e.g. floor perimeters)
- Along all internal corners – vertically and horizontally
- Over existing movement joints or changes in background material
- Dividing large tiled areas into bays

LIMITATION

Do not use for:

- External Walls up to 6m: use **MEP®. COL FLEX (C2S2)**
- Light colored natural stone or tiles: use **MEP®. COL PORCELAIN WHITE (C1T)** or **MEP®. COL PRO WHITE (C2E)**
- Deflection or limited shrinkage substrate: use **MEP®. COL FLEX (C2S2)**
- Gypsum: use **MEP®. COL PATE (D2E)**
- Other substrate (steel, aluminum ...): use **MEP®. COL EPOXY**

RECOMMANDATIONS

- If a skin has formed on the adhesive before tiling has started, remove the adhesive and apply a fresh layer
- When fixing, it is important to press the tiles to make sure that they all form a solid surface, and to avoid any gaps between tile and support
- Back buttering systematically in outdoor application
- Do not apply more than 15 mm or less than 5 mm thick

PRACTICAL INFORMATIONS

- Packaging: 20kg triple-ply paper bags
- Handling and storage: 6 months if kept in a dry cool place in the original packaging
In more extreme conditions this period might be shortened
- Tools: Low speed mechanical mixer, rubber mallet, notched trowel

IMPORTANT NOTE

SAFETY AND HYGIENE:

All the information about conditions of use, storage, transport and removing chemical waste is available on the product Safety Sheet. The product and its packaging must be disposed of according to current legislation and it is the responsibility of the product end user

LEGAL NOTICE:

Our products are fully covered by a public liability insurance

The data contained in this document is based on our experience and technical knowledge, gained during laboratory assays, and our bibliography.

We will not be responsible for any product applications not indicated in this datasheet. The dosing and usage amount data are only guidelines, based on our experience, and may alter due to atmospheric or on-site conditions. For correct dosing and usage amounts, it is necessary to conduct a trial or assay "in situ", for which the client is responsible. If you have any query or require addition information or clarification, please consult our technical department or website www.mep.co.mu