



MEP®.DRY **FLEX**

Flexible waterproofing mortar

- Protection and waterproofing of structures
- Approved for potable water systems
- Crack bridging properties

PRODUCT DESCRIPTION

MEP®. DRY FLEX is a flexible, two component hydraulic mortar used for protection and waterproofing of structures. Once applied, it forms a bonded, flexible, protective film

MEP®. DRY FLEX is classified as surface protection systems for concrete under UNE-EN 1504-2:2005 Part 2: *CE CERTIFICAT No. 16/12793-1610-S / Surface protection systems for concrete.*

USES

MEP®. DRY FLEX is designed for

Waterproofing of structures

- Swimming pools, reservoirs, retention tanks, potable water reservoirs, engineering structures etc...
- Waterproofing of new and old buildings (internal and external)
- Under-tile sealant for public and private swimming pools
- Under-tile sealant or mortar screed for balconies, loggias and terraces
- Under-tile sealant for damp substrate

Protection of structures against

Weathering (engineering structures, silos, concrete domes, etc...)

FEATURES AND BENEFITS

- CE certify under UNE-EN 1504-2:2005 Part 2
- Protection and waterproofing of structures
- Excellent resistance to sea water and sulphated water
- Reduces carbonation of concrete by limiting movement of CO²
- Tolerates micro-cracking (classified Class A4 @ 20 oC : crack bridging properties, UNE-EN 1062-7:2004 Method A - C.1)
- Effective on negative or positive side
- High bond strength
- Non-toxic
- Good abrasion resistance
- Approved for potable water systems

TECHNICAL CHARACTERISTICS

REFERENCE MATERIAL - CE CERTIFICAT No. 16/12793-1610-S

Product norm:	EN 1504 - 2
Test norms:	EN 1542 / EN ISO 7783 / EN 1062-3 / EN 1062-6 / EN 1062-7
Flammability:	EN 13501-1
Good practices:	DTU 20.1

CHEMICAL CONTENT

<u>Component A (powder):</u>	Grey powder composed of special cements, fillers and admixtures
<u>Component B (liquid):</u>	White milky liquid containing resins in aqueous dispersion

TECHNICAL DATA

TYPICAL PHYSICAL PROPERTIES

Comply to norms EN 12004 / DTU 52.2

POWDER CARATERISTICS

Color:	Grey
Density (kg/m ³):	± 1400
Particle size:	≤ 0.6 mm
Reaction to fire:	Euroclass A1

LIQUID CARATERISTICS

Color:	Milky White
Density (kg/m ³):	± 1000

PASTE CARATERISTICS

Mixing ratio:	± 28%
Paste density:	± 1.8
pH:	≥ 13
Pot life:	≤ 1 hours
Open time:	≤ 30 min
Application temperature:	+5 °C to +35 °C

HARDEN PRODUCT CARATERISTICS

Total thickness:	≥ 2mm
Delay between coats	≥ 6 hours
Surface protection systems for concrete under UNE-EN 1504-2:2005 Part 2	
CE CERTIFICAT No. 16/12793-1610	
Compressive strength	≥ 10 MPa
Flexural strength	≥ 2 MPa
Bond strength, UNE-EN 1542:1999	≥ 1 MPa
Liquid water permeability, UNE-EN 1062-3:2008	< 0,1 Kg/m ² *h ^{0,5}
Water-vapour transmission properties, UNE-EN ISO 7783:2012	≥ 1 MPa
Carbon dioxide permeability, UNE-EN 1062-6:2003	Sd > 50 m
crack bridging properties, UNE-EN 1062-7:2004 Method A - C.1 @ 20 oC	Class A4

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

APPLICATION

CONSUMPTION

3 to 4 kg/m² (in 2 coats)

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

- The substrate must be clean, solid, sound and free of any traces of oil or dust. All unsound areas, flaky or peeling layers must be removed and repair with DURA®.REP FR
- Fill in honeycombing, air pockets and general defects, fill cracks and hollow joints (If repairs are required, use DURA®.REP FR)
- Surface should be pre-wetted, but not running with water during application

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

- Machine mix only – low speed (500 rpm).
- Proceed as follows to obtain a homogeneous and free of lumps paste
 - pour $\frac{3}{4}$ of the resin into a suitable container
 - add the powder gradually in order to obtain a plastic consistency
 - add the rest of the liquid and mix for a further 3 minutes
- Leave to stand for several 2-3 minutes

NB: Never add more resin to the mix. Should the mortar stiffen up due to delays in application then discard the product and mix a fresh batch

Application

- **MEP®. DRY FLEX** may be applied by short bristled block brush, trowel or spray
- A minimum of 2 coats of **MEP®. DRY FLEX** must be applied
- Apply a 1st coat allowing approximately 1.5 – 2 kg/m²
- The 2nd coat is applied after 6 to 24 hours' drying time (depending on temperature) at a rate of 1.5 – 2 kg/m²
- The total thickness should be approximately 2 mm and never less than 1.5 mm, whatever method of application is used

Reinforcing

For substrates showing evidence of micro-cracking or which are likely to be subject to dimensional changes (water towers, structures exposed to thermal shock etc). The 1st coat should be reinforced by embedding MEP®. TRAM 02 mesh ensuring the mesh is fully covered. It is advisable to use the MEP®. TRAME 02 mesh for all specific reinforcement needs

Possible covering materials:

MEP®. DRY FLEX may be left bare or covered with tiling or a cement mortar screed

MEP®. DRY FLEX may be painted with high quality PVA acrylic paint

LIMITATION

Do not use for

- High traffic areas

RECOMMANDATIONS

- Do not apply in wet weather, or in temperatures below 5°C or over 35°C
- Wind reduces open time and leads to reduced adherence
- Water tanks and basins can be filled after 7 days' drying

PRACTICAL INFORMATIONS

- Packaging: 15kg and 30Kg Kit
- 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, short bristled block brush, trowel or spray

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