

BASIC MORTEC SLM System

Concrete-polyurethane self-levelling system for food environments

Description

Basic Mortec SLM is a thick concrete-polyurethane self-levelling system with high thermal and chemical characteristics.

The system is fairly breathable and has a high adhesion on supports with moisture content.

The installation of the adhesion promoter Aquatec 280 fibre-reinforced is suggested.

Its specific formula makes the system versatile in terms of installation, this allowing to obtain coatings with a variable thickness from 4 to 6 mm.

Performance/Advantages

- High chemical/thermal resistance (80°C - 100°C)
- Smooth finishing, not slippery
- Fairly good resistance to fall from acuminate objects (joints, knives...)
- Medium-high transit stress

Use

- Concrete floorings or floorings made of tiles that require high chemical and thermal resistance
- Suggested for surfaces requiring functionality not aesthetical characteristics
- Sectors: food (dairy farming, meat processing, hotels and industrial kitchens) and chemical-pharmaceutical

Suggested preparation

- Heavy diamond grinding
- Shot blasting
- Vacuum cleaning of the surface
- Chasing floor edges are recommended to distribute thermal and mechanical stresses

Installation

- Primer **Resitac** added with Technibond fibres, charged with Duromix 1 and pouncing of Duromix 2, for a total consumption of 2.75 Kg/m²
- In the presence of moisture content: Primer **Aquatec 280 New Eco** added with Technibond fibres, charged with Duromix 1 and Duromix 2 and pouncing of Duromix 2, for a total consumption of 2.9 Kg/sq m
- Installation of self-levelling mortar obtained with **Mortec AD/SLM/HDM**, for a total consumption of 7.6 Kg/sq m

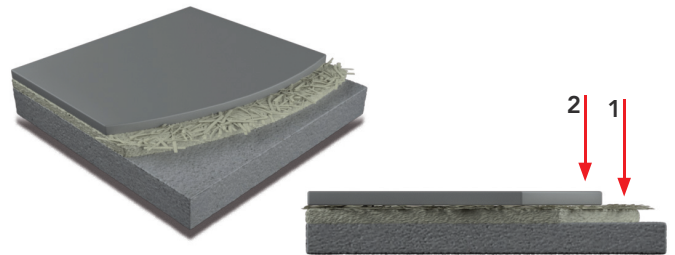
Note: Consumption in the intermediate coat depends on the final thickness required

TECHNICAL CHARACTERISTICS

Product hardening at 23°C - 7 days

Medium thickness (mm)	4
Color	Red / Yellow Ochre / Grey Green
Anti-slip grade	R11
Aspect	Mat
Compressive strenght (DIN EN 196/ASTM C1920) N/mm ²	60
Resistance to flexure (DIN EN 196/ASTM C1920) N/mm ²	20
Resistance to traction (ISO R527/ASTM D638) N/mm ²	7
Thermal expansion coefficient (DIN 53752) °K ⁻¹	4 x 10 ⁻⁵ / °C
Water absorption	< 1% (CPBM 2/67/2)
Thermal resistance (DIN 53754 /ASTM D1044)	- 15 °C a 80 °C - 4 mm - 15 °C a 100°C - 6 mm
Chemical Resistance	High
Reaction to fire (UNI EN 13813)	B _f -s1

FURTHER INFORMATION CAN BE REQUIRED
TO IPM ITALIA TECHNICAL OFFICE



Stratigraphy

1. PRIMER RESITAC OR AQUATEC 280 NEW ECO FIBRE-REINFORCED
2. MORTAR MORTEC AD/SLM/HDM

AVAILABLE ANTIBACTERIAL PROTECTION

Basic Mortec SLM can be added with an antibacterial defence able to eliminate up to 99,9% of bacteria from the surface.

BASIC MORTEC AD System

Concrete-polyurethane multilayered system for food environments

Description

Basic Mortec AD is a thick multilayered concrete-polyurethane system with high thermal and chemical characteristics. Moderately breathable, with high adhesion on supports with moisture content. Installation of fibre-reinforced adhesion promoter Aquatec 280 is suggested. Its specific formula makes the system versatile in terms of installation, thus allowing to obtain coatings with a thickness variable from 4 to 6 mm.

Performance/Advantages

- High chemical and thermal resistance (110°C)
- Natural anti-slip action
- Resistance to fall from dangerous objects (joints, knives and so on)
- Suitable for heavy transit

Use

- Concrete floorings or floorings made of tiles that do not require high chemical and thermal resistance
- Suggested for surfaces requiring functionality not aesthetical characteristics
- Sectors: food (dairy farming, meat processing, hotels and industrial kitchens) and chemical-pharmaceutical

Suggested preparation

- Heavy diamond grinding
- Shot blasting
- Vacuum cleaning of the surface
- Chasing floor edges are recommended to distribute thermal and mechanical stresses

Installation

- Possible first layer by spatula of primer **Aquatec 280 New Eco** added with Technibond fibres, charged with Duromix 1 and Duromix 2 and pouncing of Duromix 2, for a total consumption of 2.9 Kg/sq m
- Elimination of excess quartz, shot blasting of the support with elimination of dust and installation of three-component mixture **Mortec AD/SLM/HDM** pouncing with Duromix 2, for a total consumption of 12 Kg/sq m
- Finishing with **Mortec AD/SLM/HDM**, for a total consumption of 1.5 Kg/sq m

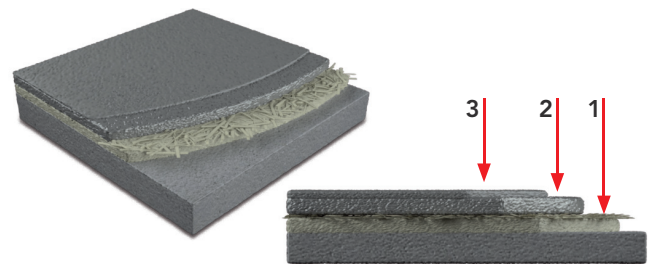
Note: Consumption in the intermediate layer depends on the final thickness required

TECHNICAL CHARACTERISTICS

Product hardening at 23°C - 7 days

Medium thickness (mm)	5
Color	Red / Yellow Ochre / Grey Green
Anti-slip grade	R11
Aspect	Mat
Compressive strenght (DIN EN 196/ASTM C1920) N/mm ²	60
Resistance to flexure (DIN EN 196/ASTM C1920) N/mm ²	20
Resistance to traction (ISO R527/ASTM D638) N/mm ²	7
Thermal expansion coefficient (DIN 53752) °K ⁻¹	4 x 10 ⁻⁵ / °C
Water absorption	< 1% (CPBM 2/67/2)
Thermal resistance (DIN 53754 /ASTM D1044)	- 15 °C a 85 °C - 4 mm - 40 °C a 110 °C - 6 mm
Chemical resistance	High
Reaction to fire (UNI EN 13813)	B _f -s1

FURTHER INFORMATION CAN BE REQUIRED TO IPM ITALIA TECHNICAL OFFICE



Stratigraphy

1. POSSIBLE PRIMER AQUATEC 280 NEW ECO FIBRE-REINFORCED
2. INTERMEDIATE LAYER WITH MORTEC AD/SLM/HDM
3. FINISHING LAYER WITH MORTEC AD/SLM/HDM

AVAILABLE ANTIBACTERIAL PROTECTION

Basic Mortec AD can be added with an antibacterial defence able to eliminate up to 99,9% of bacteria from the surface.

BASIC MORTEC HDM System

Concrete-polyurethane system for food environments

Description

Basic Mortec HDM is a system made of polyurethane-concrete mortar with high thermal and chemical characteristics. A good breathability and an high adhesion to supports with moisture content is assured. The installation of the adhesion promoter Aquatec 280 fibre-reinforced is suggested.

Its specific formula provides a single installation phase and assures a great versatility, thus allowing to obtain coatings with a thickness of 9 mm on average.

Performance/Advantages

- High chemical and thermal resistance (110°C - 120°C)
- Natural anti-slip action
- Resistance to fall from dangerous objects (joints, knives...)
- Heavy transit stress

Use

- Concrete floorings or floorings made of tiles requiring great chemical and thermal resistance
- Suggested for surfaces requiring functionality not aesthetical characteristics
- Sectors: food (dairy farming, meat processing, hotels and industrial kitchens) and chemical-pharmaceutical

Suggested preparation

- Heavy diamond grinding
- Shot blasting
- Scarifying
- Vacuum cleaning of the surface
- Chasing floor edges are recommended to distribute thermal and mechanical stress

Installation

- First layer applied by spatula of primer **Aquatec 280 New Eco** added with Technibond fibres, charged with Duromix 1 and Duromix 2 and pouncing of Duromix 2, for a total consumption of 2.9 Kg/sq m
- Elimination of excess quartz, grinding of the support, vacuum cleaning and installation of **Mortec AD/SLM/HDM** charged with Duromix 2, for a total consumption of 19 Kg/sq m

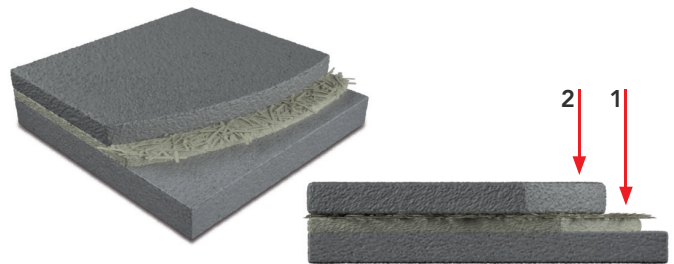
Note: Consumption can vary according to the characteristics of the support

TECHNICAL CHARACTERISTICS

Product hardening at 23°C - 7 days

Medium thickness (mm)	9
Color	Red / Yellow Ochre / Grey Green
Anti-slip grade	R11
Aspect	Mat
Compressive strenght (DIN EN 196/ASTM C1920) N/mm ²	90
Resistance to flexure (DIN EN 196/ASTM C1920) N/mm ²	15
Resistance to traction (ISO R527/ASTM D638) N/mm ²	7
Resistance mg/1000 revolutions (TABER H22)	950
Thermal expansion coefficient (DIN 53752) °K ⁻¹	2,1 x 10 ⁻⁵ / °C
Water absorption	< 1% (CP.BM 2/67/2)
Thermal resistance (DIN 53754 /ASTM D1044)	- 40 °C a 120 °C
Chemical resistance	High
Reaction to fire (UNI EN 13813)	B _{fi} -s1

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Stratigraphy

1. PRIMER AQUATEC 280 NEW ECO FIBRE-REINFORCED
2. MORTAR MORTEC AD/SLM/HDM

AVAILABLE ANTIBACTERIAL PROTECTION

Basic Mortec HDM can be added with an antibacterial defence able to eliminate up to 99,9% of bacteria from the surface.