

# PoolCem



Decorative micro-mortars for smoothing and finishing in swimming

## Product description

Mineral-based micro-mortar composed of calcium cements, selected aggregates, lime, and powdered water-repellent additives. Primarily formulated for surfaces in constant immersion—such as swimming pools and fountains—thanks to its strength and water resistance. Also ideal for terraces and façades.

Application system includes:

Poolcem F6: Substrate smoothing and rough finish

Poolcem F4: Textured finishes

Poolcem F2: Smooth finishes

## Properties

Although it does not replace a waterproofing mortar, Poolcem micro-mortars are water-resistant even without protective sealing, while remaining vapor-permeable. See the swimming pool application guide.

Excellent workability in both “fresh-on-fresh” and “fresh-on-dry” techniques

High hardness and crack resistance

Variety of textures based on aggregate size and application method

## Substrate Preparation

Cement-based surfaces must be fully cured after 28 days of drying and have a minimum strength of 1.5 N/mm<sup>2</sup>. The substrate must be clean and dry, free of cracks, oil, grease, or any contaminants that could hinder proper adhesion of the micro-mortar. Mechanical surface preparation (grinding or diamond sanding) is always recommended.

For swimming pool applications:

Remove any existing tiles, if present

Apply directly onto pool concrete—do not apply over elastic waterproof membranes

Refer to the Pool Application Guide

For non-immersed surfaces such as mortar, ceramic, terrazzo, or marble:

Prime using P541, ESTIPOX P100, or ESTILPOX DPM, depending on the type and condition of the substrate

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## Instructions for use

Poolcem micro-mortars should only be mixed with clean or pigmented water. Pour the indicated amount of water into a clean bucket, add the corresponding amount of pigment and stir. Then gradually add the powder and mix using a low-speed mixer for 2 to 3 minutes until achieving a lump-free mixture. Let the mixture rest for 10 to 15 minutes, then stir again for an additional 2 to 3 minutes.

Mixing pot life is approximately 1 hour, though this may vary depending on ambient and mixing water temperature. If using hard water, the water ratio may be increased by 5%. If the consistency of the micro-mortar thickens during use, do not add more water—just stir the mixture with a trowel.

Ambient temperature during application should be between 10°C and 25°C.

Water mixing ratios for clean or pigmented water :

20Kg of Poolcem F6: 3,2-3,4 liters.

20Kg of Poolcem F4: 4,6 liters.

15Kg of Poolcem F2: 3,4 liters.

Pigment dosage: The dosage of MCT pigments for Poolcem F4 and F6 micro-mortars should be 50% less than the amount indicated on the MCT pigment containers.

**Please refer to the application manuals and system sheets for related products and application processes.**

## Performance

Consumption may vary depending on the substrate's roughness and flatness:

|  | F6      | F4    | F2   |
|--|---------|-------|------|
| Consumption m <sup>2</sup> / in two layers | 3-3,3Kg | 2,5Kg | 2Kg  |
| Bucket format                              | 20Kg    | 20Kg  | 15Kg |

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## Technical Data

| PROPERTIES  | Poolcem F6                                | Poolcem F4                                | Poolcem F2                                |
|---|---|---|---|
| Appearance  | Powder                                    | Powder                                    | Powder                                    |
| Color   | White                                     | White                                     | White                                     |
| Mixing Component  | Water                                     | Water                                     | Water                                     |
| Mixture density   | Aprox. 1,80 gr/cc                         | Aprox. 1,74 gr/cc                         | Aprox. 1,72 gr/cc                         |
| Mix working life  | 1 hour at<br>20°C                         | 1 hour at<br>20°C                         | 1 hour at<br>20°C                         |
| Solid content   | 100%                                      | 100%                                      | 100%                                      |
| Maximum aggregate size  | 0,6mm                                     | 0,4mm                                     | 0,2mm                                     |
| Adhesion strength – UNE-EN 13892-8:2003                           | 2,2 N/mm <sup>2</sup>                     | 2,2 N/mm <sup>2</sup>                     | 2,2 N/mm <sup>2</sup>                     |
| Impact resistance – UNE-EN ISO 6272:2012                          | >14,7 N/mm <sup>2</sup>                   | >14,7 N/mm <sup>2</sup>                   | >14,7 N/mm <sup>2</sup>                   |
| Wear resistance (Böhme method) – UNE-EN 13892-3:2003              | 19,6 cm <sup>3</sup> / 50 cm <sup>2</sup> | 19,8 cm <sup>3</sup> / 50 cm <sup>2</sup> | 19,6 cm <sup>3</sup> / 50 cm <sup>2</sup> |
| Compressive strength (after 28 days)<br>UNE-EN 13892-2:2003       | 41,2 N/mm <sup>2</sup>                    | 41,0 N/mm <sup>2</sup>                    | 40,8 N/mm <sup>2</sup>                    |
| Flexural strength (after 28 days)<br>UNE-EN 13892-2:2003          | 11,4 N/mm <sup>2</sup>                    | 7,8 N/mm <sup>2</sup>                     | 9,3 N/mm <sup>2</sup>                     |
| Determination of liquid water permeability.<br>UNE-EN 1062-3:2008 | 0,04 Kg/m <sup>2</sup> h <sup>0,5</sup>   | 0,04 Kg/m <sup>2</sup> h <sup>0,5</sup>   | 0,04 Kg/m <sup>2</sup> h <sup>0,5</sup>   |

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## Tool Cleaning

Tools must be cleaned immediately after use with water. Once the product has hardened, tools can only be cleaned by mechanical means.

## Storage

Store in its original sealed container, protected from weather exposure, at temperatures between 10–25°C, in a dry and well-ventilated area. Keep away from heat sources and direct sunlight.

Shelf life is one year from the date of manufacture when stored correctly.

## Safety Instructions

This product contains cement, which may affect the eyes, skin, and mucous membranes. Therefore, it is recommended to use a mask, gloves, and protective goggles.

For more information, request the product's safety data sheet.

**Note:** This technical sheet, like all other recommendations and technical information, is intended solely to describe the product's characteristics, usage method, and applications. The data and specifications provided are based on our technical knowledge obtained from literature, lab testing, and practical experience.

Consumption and dosage figures are based on our own experience and are subject to variation depending on site conditions. Actual values must be verified through on-site testing and are the responsibility of the customer.

For further guidance, consult our technical support service. Microestil Cement, s.l. reserves the right to modify product composition, provided it continues to meet the specifications described herein. Applications of the product outside the stated recommendations are not our responsibility.

Warranty is provided in cases of manufacturing defects only. Additional claims are excluded. Our responsibility is limited to reimbursing the value of the supplied goods.

This technical sheet becomes void upon the release of a new edition.