

## Repar SM Bic

Structural two-component micromortar, for finishing coats and claddings



Fine skim, two-component, thixotropic, rheoplastic, composite , "multipurpose", fast solidifying. Perfect for millimetre and cosmetic smoothing of artefacts and works of concrete in structural and/or functional restoration; also suitable for smoothing façades of buildings with partial or total presence of wall plastic coatings.

**CUSTOMS CODE:** 3824 5090

**COMPONENTS:** Two-components

**APPEARANCE:** Powder + Liquid

**AVAILABLE COLORS:** White / Gray

**PACKAGING AND DIMENSIONS:** Bag 25 kg [A] - Plastic can 5 kg [B] - Kit: 1 Bag 25 kg [A] + 1 Plastic can 5 kg [B]

### OBTAINED CERTIFICATIONS AND REGULATIONS



### FEATURES AND BENEFITS

Repar SM Bic and a plaster end, two-component, thixotropic, rheoplastic, composite , "multipurpose"; based on high-resistance cements, superpozzolanic fillers, hydrodispersed polymeric resins, plasticisers, stabilisers, and anticorrosives, antiallergic additives, selected aggregates, microfibres. The very fine binding matrix, with a high pozzolanic component, together with the special polymers contained in component B, give the applied product a high adhesion to the support, together with a particularly low elastic modulus. The fine grain size and spheroidal morphology of the quartz aggregates facilitate the application of the smoothing compound, especially when used in combination with GFRP meshes (Rinfor System anti-tipping and anti-shattering systems).

### FIELDS OF APPLICATION

- Repairs, smoothing, protective and waterproofing coatings, planar regularizations, adhesive coatings, etc., on cementitious supports, walls, cement plasters, concrete floors, even low-absorption coatings (plastic wall coatings, provided they are firmly anchored to the support).
- Smoothing of reinforced concrete structures of tanks, tanks and swimming pools, before installing resin coatings or tiles.
- Smoothing of beams, pillars and decks of road infrastructures
- Rinfor System anti-tipping system on partition walls and infills, in combination with GFRP Armaglass Structura 115, Armaglass Structura 250 meshes and connectors in GFRP Armaglass Connector or in Helix Steel Aisi 304 stainless steel.
- Rinfor System shatter-proof system on floors, in combination with Armaglass Structura 250 GFRP mesh, flanges with screws and brackets with plugs.
- Regularization and preparation layers of concrete and masonry supports before the installation of carbon fiber FRP systems, both impregnated in situ (fabrics) and glued (sheets).

## ALLOWED SUPPORTS

Plasters - Concrete - Cement-based or lime-based mortars - Prefabricated concrete - Acrylic wall coatings

## PREPARATION OF SUPPORTS

Application surfaces should be clean, free of soiling, crumbling and non-adhering parts, dust, etc., conveniently saturated with water until they reach the condition "saturated with dry surface".

## MODE OF USE

Mix the concrete powder (component A) with the polymeric hydrating dispersion (component B), preferably with a mixer at a low number of revolutions, gradually pour the powder into the liquid (in case of manual mixing add the liquid to the powder); continue to mix until a homogeneous lump-free mixture is obtained. The optimal consistency of the product and the consequent physical-mechanical performances declared in this technical data sheet can be reached using 4.5 kg of COMPONENT B for each 25 kg bag. The excess quantity of COMPONENT B (0.5 kg) is particularly useful for priming the substrate, or for wetting the trowel in the final smoothing operation, or in hot and arid environmental conditions where the mixed product is kept at rest in the bucket it may require some light addition of liquid to regain its optimal consistency, thus avoiding uncontrolled water additions.





## APPLICATION METHODS





Brick trowel - Finishing trowel - Spatula

## TOOL CLEANING

Water

## KEY FEATURES

-  Highlighted product
-  Nonflammable
-  Shelf-life: 12 months
-  Use wearing protective gloves

-  Maximum diameter of aggregate: 0.5 mm
-  Pot-life: 45-60 min
-  Temperature of use: +5 / +35 °C
-  UV-resistant

## TECHNICAL SPECIFICATIONS

UNI EN 1015-11  
Compressive strength > **45 N/mm<sup>2</sup>**

EN 1542  
Bonding force **2.4 N/mm<sup>2</sup>**

Reaction to fire **B-s2 d0**

EN 13142  
Static elastic modulus **19500 N/mm<sup>2</sup>**

UNI EN 13057  
Capillary absorption **0.47 kg•h<sup>0.5</sup>/m<sup>2</sup>**

UNI EN 1015-11  
Flexural strength > **8 N/mm<sup>2</sup>**

Darcy impermeability **10<sup>-10</sup> cm/s**

pH > **12**

UNI EN 1015-6  
Density **2015 kg/m<sup>3</sup>**

EN 13687-1  
Thermal compatibility **2.2 N/mm<sup>2</sup>**



## CONSUMPTION

Approximately 2.0 kg/m<sup>2</sup> of Repair SM Bic for each millimetre of thickness to be made.

## STORAGE AND CONSERVATION

Store the product in its original packing, in a fresh and dry environment, avoiding frost and direct sunlight. Inadequate storage of the product may result in a loss of rheological performance. Protect from humidity.

## PHOTO GALLERY



## ADDITIONAL CONTENT



## WARNINGS AND PRECAUTIONS

Do not apply in case of direct exposure to sunlight; cure the protection and the prolonged moist hardening of exposed surfaces. The general information, along with any instructions and recommendations for use of this product, including in this data sheet and eventually provided verbally or in writing, correspond to the present state of our scientific and practical knowledge. Any technical and performance data reported is the result of laboratory tests conducted in a controlled environment and thus may be subject to modification in relation to the actual conditions of implementation.

Azichem Srl does not assume any liability arising from inadequate characteristics related to improper use of the product or connected to defects arising from factors or elements unrelated to the quality of the product, including improper storage. Those wishing to utilise the product are required to determine prior to use whether or not the same is suitable for the intended use, assuming all consequent responsibility.

The technical and characteristic details contained in this data sheet shall be updated periodically. For consultation in real time, please visit the website: [www.azichem.com](http://www.azichem.com). The date of revision is indicated in the space to the side. The current edition cancels out and replaces any previous version.

Please note that the user is required to read the latest Safety Data Sheet for this product, containing chemical-physical and toxicological data, risk phrases and other information regarding the safe transport, use and disposal of the product and its packaging. For consultation, please visit: [www.azichem.com](http://www.azichem.com).

It is forbidden to dispose of the product and/or packaging in the environment.

