

## Prerit Biomix Plus

### Premix for architectural flooring in washed stone



Premixed powder for the packaging of concrete used for the creation of architectural flooring of landscape/environmental value, with the "washed gravel or exposed gravel" technique. Prerit Biomix Plus, with the addition of only selected aggregate and the necessary mixing water, is ready to be mixed and laid to create architectural flooring.

**CUSTOMS CODE:**3824 5090

**COMPONENTS:**Single component

**I WAIT:**Dust

**AVAILABLE COLORS:**White / Grey

**PACKAGING AND DIMENSIONS:**25kg Bag - Pallet: 50 x (25kg Bag)

## FEATURES AND BENEFITS

Prerit Biomix Plus, rich in pozzolanic fillers and zeolitic fillers, allows the creation of concretes with excellent mechanical performance, high durability, uniform and stable colouring of the cement matrix and volumetric stability.

The ease of its installation allows for ideal management of the construction site and rapid progress of the works, with excellent yield in terms of m<sup>2</sup>/day.

The additives present in the formulation allow to easily obtain water/cement ratios  $\leq 0.5$  and calibrated incorporated air contents which allow to satisfy the performances required for concretes in environments subjected to freeze-thaw (environmental exposure class XF).

The minimum recommended thickness for light driveway flooring is 8 cm, while for cycle-pedestrian flooring it is 5 cm. The use of steel meshes, or alkali-resistant fibreglass meshes from our ARMAGLASS family, for load distribution and contrast of contractions/expansions, is appropriate in all situations in which the architectural flooring is subjected to physical-chemical and environmental stress (for this purpose, consult our service)

The architectural concrete layer must be supported by a suitable sub-base, adequately designed according to the intended use and expected loads. For cycle-pedestrian surfaces, soil with good geotechnical characteristics, adequately compacted, may be sufficient. For driveways, an adequate concrete sub-base must be sized with the possible interposition of metal reinforcements and/or structural fibres.

## FIELDS OF USE

Prerit Biomix Plus is ideal for the production of architectural concretes for:

- pedestrian and vehicular roads with medium or low traffic intensity;
- pedestrian avenues and paths;
- sidewalks, stairs and access ramps;
- pitches;
- public parks, gardens;
- squares, parking lots;
- swimming pool surrounds and borders of valuable architectural elements, etc.



## ALLOWED MEDIA

Concrete - Underlay screeds

## HOW TO USE

Add Prerit Biomix Plus to the selected aggregates (clean and selected quarry aggregates, natural or colored, rounded or split quarry aggregates, with an appropriate grain size from 6/8 to 12 mm) in the quantity required for the specific use. Add the necessary water, mixing thoroughly until a homogeneous, lump-free mixture is obtained. The minimum mixing time must be at least 4 minutes. Transport the fresh mix to the work area. Unload the mix onto the previously prepared and soaked substrate, pull it with the straight edge and smooth with a rounded bull-float.

Apply the surface setting retarder Prerit Solution (see technical data sheet) as soon as possible, as you proceed with the installation operations. In addition to delaying the surface setting of the concrete, it will offer adequate protection of the casting until the next washing operation.

Wash the surfaces with a jet of water under pressure after a time ranging from 4 to 24 hours, depending on the temperature and humidity of the environment. Washing must remove the binding matrix for a thickness of 2-4 mm and bring the aggregates back into view.

## METHODS OF APPLICATION

Add to other components - Staggia

## TOOL CLEANING

Waterfall

## KEY FEATURES

-  Shelf life: 12 months
-  Application temperature: +5 / +35 °C
-  Maximum aggregate diameter: 1.5 mm

## CONSUMPTION

For each cubic meter of concrete to be packaged, use 700-800 kg of Prerit Biomix Plus (n° 28-32 bags of 25 kg), to be mixed with 1200-1300 kg of selected gravel. Average water required: w/c ratio  $\leq$  0.5.

### APPLICATION TOOLS:

Add Prerit Biomix Plus to the other components and mix with a mechanical mixer, spread it with a shovel, rake and straight edge and smooth the surface with a bull-float spatula.

## STORAGE AND CONSERVATION

Store the product in its original packaging in a cool, dry place, protected from frost and direct sunlight. Inadequate storage of the product may cause a loss of rheological performance. Protect from humidity.



## PHOTO GALLERY



## WARNINGS AND PRECAUTIONS

The general information, as well as the indications and suggestions for the use of this product, reported in this technical sheet and possibly also provided verbally or in writing, correspond to the current state of our scientific and practical knowledge.

Any technical and performance data reported are the result of laboratory tests conducted in a controlled environment and as such may be subject to changes in relation to the actual installation conditions.

Product for professional use, Azichem Srl assumes no responsibility deriving from inadequate performance related to improper use of the product, or linked to defects deriving from factors or elements external to the quality of the product, including incorrect storage. Anyone intending to use the product is required to establish, before use, whether or not it is suitable for the intended use, assuming all consequent responsibility.

The technical and performance characteristics contained in this technical sheet are updated periodically. For real-time consultation, connect to the site: [www.azichem.com](http://www.azichem.com). The revision date is indicated in the space at the bottom. This edition cancels and replaces any previous edition.

Please remember that the user is required to read the most recent Safety Data Sheet for this product, containing chemical-physical and toxicological data, risk phrases and other information in order to transport, use and dispose of the product and its packaging safely. To consult it, connect to the site: [www.azichem.com](http://www.azichem.com).

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

