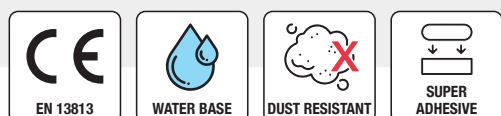


STARCEMENT 5/A

2 COMPONENT EPOXY WATER BASED PRIMER



CHARACTERISTICS

Non-toxic and **odourless composition**, easily applicable even in poorly ventilated environments.

Compatible with slightly **green** concrete substrates free from counterthrust.

Good resistance to **oils and fuels**.

Excellent **mechanical characteristics**.

Excellent hardness and **scratch resistance**.

Contributes to obtaining credits for **LEED** certification.

Meets the requirements of the **13813** standard for synthetic resin-based screeds.

APPLICATION TEMPERATURE

Applicable **from +10°C to +45°C** on the substrate.

OPERATING TEMPERATURE

Operating temperature **from -25°C to +90°C** (in air).

APPLICATION FIELDS

- **Primer** for water-based **epoxy coatings**.
- **Consolidating, anti-dust** and anti-wear paint resistant to oils and fuels for concrete floors.
- Consolidator for **crumbling** and very porous concrete surfaces.
- Consolidator for **loose masonry** mortars.
- Primer for **DUROGLASS FU LEVEL** and **DUROGLASS PW** on very dry and absorbent surfaces.
- Product that can be used as a primer for **STARFLEX waterproofing** systems on old **bituminous membranes**.

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SUBSTRATE PREPARATION

- The surfaces to be treated must be **sound, compact, free from dust and pollution** from foreign substances (dirt, oil, grease, release agents, etc.).
- The **cement substrate**, after adequate mechanical preparation, must have a surface resistance to tearing greater than 1.5 MPA, measured using suitable instruments.
- In the case of **ceramic substrates** or **old resinous coatings**, after adequate mechanical preparation, their correct adhesion to the substrate and the absence of traces of pollutants must be checked.
- Damaged **joints, holes** and other **irregularities** must be adequately levelled and repaired with **STARCEMENT 385** type epoxy grout, or **DUROGLASS P1/2** type epoxy mortar suitably loaded with quartz or **ADDENSANTE NT2**.
- In the case of **bituminous membranes**, the preparation of the surfaces is to be carried out by means of a high pressure hydro-washing (> 300 bar), in order to have a clean surface free from any pollutant.

It is essential to roughen and/or wash the surface before laying. The choice of the mechanical preparation method (sandblasting, smoothing and shot peening or milling) is to be chosen on the basis of the conditions of the substrate and the type of coating to be used.

All preparations require adequate dedusting by means of aspiration. In the case of sanding and smoothing, washing with a washer-dryer is strongly recommended to eliminate residual dust and/or thin filler.

PRODUCT PREPARATION

Two-component product to be mixed thoroughly before use with a low-speed helical mechanical stirrer, operating as follows:

- Add component B with component A and mix until completely homogenized.

DILUTION

According to the types of use and the problems to be solved, the product can be used as it is or diluted with **water**.

The dilution must be carried out after complete mixing of the two components, homogenizing with the same stirrer.

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PRODUCT APPLICATION

STARCEMENT 5/A can be applied by:

- Roller
- Brush
- Airless or low pressure spray

The consumption of **STARCEMENT 5/A** varies according to the type of coating desired.

A) PRIMER: indicative consumption of 0.1 – 0.15 kg/m² of product diluted 1:1 with water. The over-application interval will be maintained from 60 minutes to 16 hours depending on the environmental conditions. (Theoretical consumption of pure product **0.05 – 0.075 Kg/m²** depending on the absorption of the support).

B) DUST-PROOF COATING: indicative consumption of **0.1 – 0.15 Kg/m²** of product diluted 1:1 with water. (Theoretical consumption of pure product **0.05 – 0.075 Kg/m²**).

After a maximum of 24 hours, apply a second coat of the product diluted 1:0.5 with water with a consumption of **0.2 – 0.23 Kg/m²**. (Theoretical consumption of pure product **0.135 – 0.15 Kg/m²** depending on the absorption of the substrate).

C) REJOINTS: indicative consumption of **0.2 – 0.3 Kg/m²** of product diluted 1:0.2 and re-coat with a new cast from 60 minutes to 3 hours. (Theoretical consumption of pure product **0.165 – 0.25 Kg/m²**).

D) CONSOLIDATOR FOR MASONRY MORTARS AND CHALKING SURFACES: apply the product diluted 1:2 with water, also by injection, in the necessary quantity according to the absorbency of the substrate.

OVER APPLICATION

The hardened and dry layer of **STARCEMENT 5/A** can be covered directly with any type of epoxy, polyurea and polyurethane coating with or without solvent.

The maximum over-application interval in the case of anti-dust coating is 24 hours, in the case of construction joints it is 3 hours.

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WARNINGS AND PRECAUTIONS

- In the case of partial sampling, the separated components must first be homogenized.
- The minimum over-application interval depending on the ambient temperature and humidity is in any case the one after which the applied layer appears perfectly transparent.
- All mixtures must be used for no more than 40 minutes from preparation, depending on the application temperatures. After this interval it is not recommended to apply the mixture even if it is still fluid.
- After use, tools must be washed with water.

SAFETY AND CLEANLINESS

When applying these products, it is recommended to use goggles, masks and rubber gloves and all the PPE required by current regulations.

Clean the tools thoroughly after use with water or thinner **DILUENTE 21**.

For more information regarding the precautions for use, please refer to the safety data sheet.



STARCEMENT 5/A

TECHNICAL DATA		
Colour		Milky liquid (clear film)
Specific weight	UNI EN ISO 2811-1	1.05 ± 0.02 Kg/l
Mix ratios		100 parts by weight and basic volume 100 parts by weight and volume of hardener
Viscosity at 20°C	EN ISO 2555	6500 ± 1300 mPa·s (Vel.10 – Gir.3)
Pot life 22°C		40 ± 5 minutes
Non-volatile substances	EN ISO 3251	47% in weight, 46% in volume
Curing at 22°C, 50% R.H.		- track free: 8 hours - over application 1 hours min / 16 hours max (3 hours construction of joints) - fully cured: 10 days
Permeability to carbon dioxide	EN 1062-6	R > 50 m per for thicknesses of 0.15 mm
Permeability to water vapour	UNI ISO 7783-2	Class I Sd < 5 m
Capillary absorption and water permeability	EN 1062-3	< 0.1 kg/m ² x h ^{0.5}
Adhesion strength to direct tensile stress	UNI EN 1542	> 3.5 MPa
Wear-resistance	UNI EN ISO 5470-1	Grinder H22 - 1000 g, 1000 rpm < 100 mg
Compatibility with Green concrete	EN 13578	No swelling, no cracking, no flaking > 4.0 MPa
Storage		The product in its original sealed packaging kept in a dry and protected place at temperatures between +5°C and +35°C will keep for 12 months. Keep away from frost.

The data and instructions given in this sheet, based on the best practical and laboratory experiences, are to be considered in any case indicative. Considering the different conditions of use, and the intervention of factors independent of MPM (support, environmental conditions, technical laying direction, etc.) whoever intends to use it is required to establish whether or not the product is suitable for use. Our warranty obligation is limited to the quality and constancy of the finished product for the above data, only for technical sheets accompanied by stamp and countersignature by our delegated personnel. site. Furthermore, the customer is required to verify that these values are valid for their relevant batch of product and are not superseded and/replaced by subsequent editions and/or new formulations. The data contained may vary at any time without prior notice by MPM.