

# IZONIL SKIM COAT

## GREY SUPERFINE

Industrially dry-mixed 100% waterproof breathable plastering mortar with dehumidifying ability based on Portland cement, calcium carbonate powder, unique natural admixture (Izocomponent) and reinforced with fibers for application on external / internal concrete wall or plastered wall to achieve smooth grey finish as replacement for general purpose skim coat and diffusion-closed waterproof membranes and coatings.

### DESCRIPTION

100% waterproof grey superfine skim coat (resistant against heavy rain / monsoon rain with water penetration less than 1 mm) and dehumidifying skim coat (with high volume of micropores which allows permanent dehumidifying process of wet substrate). Provides long-term solution to a problem of water penetration to the wall and simultaneously provides long-term solution of ventilation and drying of wet walls without any harmful content or toxic ingredients.

### ADVANTAGES

- ⊙ World-unique skim coat - simultaneously 100% waterproof, breathable and dehumidifying
- ⊙ Resistant against penetration of water from heavy rain / monsoon rain
- ⊙ Highly breathable
- ⊙ Dehumidifying ability - constantly dries out moisture from inside the wall and allows it to evaporate outside
- ⊙ Excellent adhesion to the substrate with minimum waste during application
- ⊙ Resistant against salt crystallization and sulphur-resistant
- ⊙ Applicable on damp surface
- ⊙ Applicable manually or by plastering machine
- ⊙ Smooth and grey superfine finish, corrects uneven surface
- ⊙ Abrasion resistant
- ⊙ Paintable with any type of masonry paint
- ⊙ Resistance to formation of hairline crack
- ⊙ Non-toxic

### USAGE

Applicable on vertical surface (concrete wall and plastered wall) both for renovation of existing / historical buildings and for new buildings:

- ⊙ External plastered wall / precast concrete wall / cast-in-place concrete wall
- ⊙ Internal plastered wall / precast concrete wall / cast-in-place concrete wall

IZONIL SKIM COAT can be applied either on surface plastered by IZONIL plaster (IZONIL HARD, IZONIL LIGHT, IZONIL ULTRA, IZONIL WHITE) or on surface plastered by ordinary plaster.

IZONIL SKIM COAT provides grey smooth finish. Concrete neutralizer, patching compound and primer does not have to be used prior to painting. Any kind of masonry paint is suitable in terms of adhesion. In terms of breathability it is recommended to use diffusion-open paint (silicate paint, cement paint, lime wash paint) as it enables breathability and it is not recommended to use diffusion-closed paint (elastomeric, latex) as it disables breathability. If ever diffusion-closed paint (elastomeric, latex) is used; before paint is applied, IZONIL SKIM COAT helps to protect external wall against water penetration (100% waterproof ability) and in the same time helps to get rid of moisture accumulated inside concrete or plastered walls, ceilings, beams and columns (dehumidifying ability).

**TECHNICAL DATA**

Appearance / color	Powder / grey
Chemical composition	Calcium carbonate, Portland cement, natural admixture Izocomponent, PP fibers
Size of calcium carbonate particles	≤ 44 μm
Packaging	20 kg paper bag / plastic bag
Shelf life	Minimum 18 months
Water / powder ratio	7.2 - 7.5 liters of clean water / 20 kg of IZONIL SKIM COAT
Pot life / workability	Minimum 3 hours (at temperature 20 °C)
Thickness of layer	2 mm - 3 mm (applied in 2 layers)
Coverage / consumption	At thickness 1 mm                      1 m <sup>2</sup> = 1 kg of dry skim coat At thickness 2 - 3 mm                7-8 m <sup>2</sup> = 20 kg dry skim coat
Depth of water penetration	< 1 mm (exposed to heavy rain / monsoon rain)
Bulk density of hardened mortar	1350 kg / m <sup>3</sup>
Compressive strength	5 - 9 MPa (after 28 days)

**SURFACE PREPARATION**

IZONIL SKIM COAT is designed to be applied on plastered substrate (plastered with one of IZONIL plaster - IZONIL HARD, IZONIL LIGHT, IZONIL ULTRA, IZONIL WHITE or plastered by ordinary plaster) or on concrete substrate (precast concrete or cast-in-place concrete).

Surface must be solid and without impurities, loose particles and contaminants such as oil, dust, grease, alcohol, etc. It is recommended to patch holes deeper than 2 - 3 mm with cement or plaster mixture before application of IZONIL SKIM COAT. It is recommended to slightly wet the surface immediately before application.

**MIXING**

It is advisable to use hand-held electric mixer to mix IZONIL SKIM COAT.

Water is always added first, 7.2 - 7.5 liters of water per 20 kg of IZONIL SKIM COAT.. Nothing else is added into mixed composition.

Add the prescribed amount of water into a suitable mixing container, followed by IZONIL SKIM COAT powder. Mix for at least 5 minutes with constant slowly mixing into a homogeneous smooth slurry. Then let the slurry rest for 5 minutes and then mix again for 1 minute. Mixed IZONIL SKIM COAT must be used within 3 hours.

**APPLICATION**

IZONIL SKIM COAT is applied manually by trowel or by machine pump on prepared surface in recommended total thickness 2 - 3 mm. It is recommended to apply IZONIL SKIM COAT in 2 layers. First layer is applied in thickness 1 - 1.5 mm. When first layer is partially dry (after 30 - 60 minutes), second layer is applied in thickness 1 - 1.5 mm to reach total thickness 2 - 3 mm.

**CLEANING**

Clear water is used for disposal of plaster for the tools and equipment. Hardened material can be disposed only in a mechanical way.

**CARE AFTER APPLICATION**

At least 24 hours after application of IZONIL SKIM COAT, sandpaper can be used to correct trowel lines and imperfections caused by application. Dust created by sand paper must be washed off the surface with water - water does not penetrate through IZONIL SKIM COAT and wall does not get wet.

**FINAL COATING / PAINTING**

Let IZONIL SKIM COAT to dry / harden at least 3 days before finishing the surface. IZONIL SKIM COAT can remain exposed without any final coating / painting. If final coating / painting is required, decorative coatings with high water vapor permeability should be used (highly breathable - diffusion-open decorative coatings / paints like silicate paints, cement paints, lime paints). If you are using a different type of paint, check its suitability with the distributor.

**IMPORTANT**

Individual parameters of preparation, mixing and application of the product stated in this data sheet could vary by country, conditions and climate where the product is used. It is important to adjust parameters for specific conditions of usage. Please contact us in case of any questions regarding the usage of IZONIL SKIM COAT (by email [vietnam@izonil.eu](mailto:vietnam@izonil.eu) or through website [www.izonil.eu](http://www.izonil.eu) where you can also find video tutorials for preparation and application).

**LIMITATIONS AND WARNINGS**

- ⊙ No additives other than clean water are added to IZONIL SKIM COAT
- ⊙ IZONIL SKIM COAT is not applied at direct sunlight and / or strong wind or rain
- ⊙ IZONIL SKIM COAT is only applied on a solid, pre-prepared substrate
- ⊙ The freshly applied IZONIL SKIM COAT must be protected from rain for at least 24 hours (at 20 ° C)
- ⊙ If IZONIL SKIM COAT is applied inside, it is necessary to ensure proper ventilation of the room for optimum drying
- ⊙ Mixed IZONIL SKIM COAT can only be processed at air and substrate temperature above + 5 ° C
- ⊙ With the expected freeze, it is not recommended to use IZONIL SKIM COAT
- ⊙ Potable water is used for mixing of IZONIL SKIM COAT
- ⊙ Unused IZONIL SKIM COAT remnants are mixed with water, allowed to cure and disposed as construction waste
- ⊙ Contaminated packagings are disposed as hazardous waste (see safety data sheet)

**LEGAL NOTICE**

The information and, in particular, the recommendations relating to application and final use of IZONIL products are provided in good faith, resulting from the present knowledge and experience with the products when properly stored, handled and applied under normal conditions in accordance with the recommendations of RED LION COMPANY LTD. or its distributors. As long as the use and processing of the product is not subject to our direct influence, we will not be liable for any damages caused by its misuse. We reserve the right to make changes resulting from technical progress.

**FIRST AID, SAFETY AND HYGIENIC RULES**

Detailed safety and health information as well as detailed precautions are provided in the IZONIL SKIM COAT safety data sheet.

**MANUFACTURER**

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