MEGAİZO 2K S302

Polymer modified, bitumen emulsion based, double component, solvent-free waterproofing material, which forms an elastic membrane when it dries.

SKU: 054.S302

PRODUCT DESCRIPTION

Product Advantages

• Poses high capillary crack bridging capability.
• Fit for underground applications.
• Does not cause leakage and sagging in the case of vertical applications.
• Excellently binds to concrete surfaces.
• Ensures seamless waterproofing for application surfaces.
• Highly elastic.
• Prepared and applied easily.
• Free from solvents, and environmentally friendly.

Usage Areas

• Megaİzo 2K S302 is used in the vertical and horizontal concrete surfaces of indoors and

outdoors spaces, in and below the foundations, for the waterproofing of such underground spaces as cellars, basements and closed parking garages, and for the waterproofing against water seepage in such wet spaces as bathrooms, kitchens and balconies.

Technical Informations

◦ **Performance**Crack bridging ability: Class CB 2 EN 15812
Watertigthness: Class W2A EN 15820
Reduction of layer thickness when fully dried: Conformant EN 15819
Resistance to compression: Class C2A EN 15815
Reaction to fire: Class E EN 13501 – 1
Water resistance: Conformant EN 15817
Resistance to rain: Class R2 EN 15816
Dimensional stability at high temperature: No sliding or draining down EN 15818
Flexibility at low temperature: No cracks EN 15813

These values have been acquired under laboratory conditions of 23+2 °C temperature and 50 + 5 % relative humidity as the result of the experiments performed with the samples of to the extent determined by the 15814 standard mesh dry film thickness.

Application Limits Useful time for prepared mixed - Pot life: Maximum 60 minutes
Surface dry time: Minimum 24 hour
Through - dry time: Minimum 3 days

The foregoing values represent the results of the laboratory tests conducted at 23 ± 2°C temperature and 50% ± 5 relative humidity conditions. The values provided as per the table may vary depending on the surface and ambient conditions.

Technicial Specificationsa) Chemical Structure: Polymer modified, bitumen emulsion based waterproofing material
b) Dry Density: 1.45 ± 0.05 gr/cm3 (powder component)
c) Liquid Density: 1.04 ± 0.05 gr/cm3 (liquid component)
d) Mixture Density: 1.2 ± 0.05 gr/cm3
e) Color: Dark brown (liquid component), Brown - white (powder component)

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Mixing Ratio18 kg liquid component should be mixed with the 6 kg powder component.

Mixing Equipment

• Low-speed electrical mixer (400 cycles/ min.)
• Special-tip stirring equipment

Mixing Period

• Mixing with a low speed mixer should be continuously done by slowly adding the powder component into the liquid component. The components should be mixed until it gets homogenous without any dry dust or lump left.

Due care must be taken during the mixing and stirring to prevent air passage into and the formation of air bubbles within the mixture.

Application Equipment

• Brush
• Trowel
• Spraying Machine

Equipment Cleaning

The equipment used should be cleaned with water following the application before the product dries. Dried product residues should be cleansed with such solvents as thinner.

ConsumptionRecommended consumption amount for 3-4 mm Megaİzo 2K S302 film thickness;

Purpose of Use	Film Thickness	Min. Consumption
Insulation against the moisture of soil	≥ 3 mm.	3,8-4,6 kg/m²
Insulation against temporary pressurized water (surface waters affecting externally)	≥ 3 mm. (**Megaİzo File S902** mesh applied)	3,8-4,6 kg/m²
Insulation against continuous pressurized water (underground water)	≥ 4 mm. (**Megaİzo File S902** mesh applied)	5,0 – 6,0 kg/m²

The said values may vary, depending on the surface and ambient conditions.

PackagingMegaİzo 2K S302 is delivered in net 24 kg plastic bucket, which contains 18 kg liquid component and 6 kg powder component within a plastic bag.

Reference Standardsa. Certifications / Standards

• TS EN 15814

b. Ministry of Public Works and Settlement Item No.

• Ministry of Public Works and Settlement Item No.: 10.300.217704.611

c. Quality Certificates

• TSE

• CE

Application Procedure

▪ Application Surfaces

Indoors and Outdoors Walls;

• Cement based plaster (MegaFilm İzo A301 primer applied)

• Concrete (MegaFilm İzo A301 primer applied)

• Old bituminous surfaces

Indoors and Outdoors Floors;

• Cement based trowel coating (MegaFilm İzo A301 primer applied)

• Concrete (MegaFilm İzo A301 primer applied)

• Old bituminous surfaces

Surface Preparation :

• The application surface should be dry, clean, sound and dust-free, and should have been cleansed of oil, dirt or any materials that may prevent adhesion, and any such materials as mortar and cement residues should be scraped from the application surface.

• The surface defects, which are deeper than 1 cm, should be repaired with MegaTamir İ T101 or MegaTamir K T102 6 - 8 hours in advance. In the cases, where structural repair mortar should be used; MegaTamir İ Yapısal T103 or MegaTamir K Yapısal T104 should be preferred.

• In the cases, where the surface bears tie rod clearances and mold joints, the iron rods and/or plastic parts should be removed or, where they cannot be removed, be cut at minimum 2 cm depth into the concrete surface, and be filled with MegaTamir İ Yapısal T103 and MegaTamir K Yapısal T104 prior to the application.

• Edge and corner joints should be beveled with MegaTamir K Yapısal T104 repair mortars in order for the maintenance of waterproofing.

• In the cases, where beveling is not performed; Megaİzo Bant S901 should be applied to such inadequately waterproof spots as edge and corner joint spots in order to ensure the maintenance of insulation.

• Upon the completion of the surface cleaning, MegaFilm İzo A301 primer should be

applied in a single coat with a brush and be left to dry for 5 hours in order to enhance the bonding strength and stabilize the surface absorption.

Application Methods :

• MegaIzo 2K S302 is applied on the surface minimum as double coats to provide 3 mm dry film thickness. In case of application under low temperature (5 - 15°C) and high relative humidity (>60%) conditions, in order to control the drying time between the layers and increase insulation quality, minimum 3 thinner layers of application should be done in compliance with the consumption volume and total dry film thickness details.

• Once the primary coat thoroughly dries, the secondary coat should be applied as perpendicularly to the primary coat. Each subsequent coat should be applied after the previous coat dries and as perpendicularly thereto.

• Depending on the nature of the application surface; the secondary coat may be applied after the placement of Megaİzo File S902 on the primary coat.

Application Recommendations :

• The amount consumer and the application thickness should be increased in zones with pressure water.

• The temperature changes between daytime and night time should strictly be taken into consideration in the determination of the application conditions. In the cases, where the temperature might drop below +5°C within 24 hours following the application; Megaİzo 2K S302 should not be applied on frozen or thawing surfaces.

• The surface, on which Megaİzo 2K S302 has been applied, should be ensured to dry thoroughly, and any earth filling, trowel coating application etc. should not be performed for 3 days following the application.

• Once the surface dries thoroughly, the surfaces, on which Megaİzo 2K S302 has been applied, should be covered without delay and be so protected from external factors.

• The waterproofing layer should, before the application of Megaİzo 2K S302, be protected from mechanical impacts and potential surface tensile with thermal insulation panels, drainage panels, geo-textile seal etc.

• The product should, once mixed, be used before the expiration of its pot life. Any product, the pot life of which has expired, should not be used during the application.

• Any foreign material other than the product’s components should not be added into the product during the application.

• The product should not be applied on unsound surfaces. The soundness and the load-bearing capacity of old surfaces should be checked prior to application.

• The surface should be preserved from air currents and water contact during and after the application.
• The product should not be applied to such surfaces, which are exposed to risk of freezing within the next 24 hours, which are frozen or the frost of which is thawing.
• Due care should be taken to ensure that the material is not exposed to direct sunlight in hot weather conditions. Megaİzo 2K S302 Polymer Modified, Bitumen Emulsion Based, Mineral Filled, Double Compound, Elastic Waterproofing Material
• The product should not be applied on extremely windy weather conditions or on hot surfaces, which are exposed to direct sunlight; and in the cases, where application is imperative under such conditions, the environment and the surface should be prepared for application in advance.
• The product should not be applied in rainy weather conditions, and the application surface should be preserved from rain for a period of 24 hours.
• Refer to our technical support hotline for recommendation on different surface applications. (PHONE:+90 444 4 595)

Covering and Protection Recommendations

• Any such mechanical applications as earth filling, trowel coating etc. should not be performed before Megaİzo 2K S302 dries thoroughly.
• Immediately following the thorough drying; the application surfaces should, with due consideration of the related details, be covered and protected with thermal insulation panels, drainage panels, geo-textile seal etc., and the application surface should never be left uncovered.
• The surfaces, which have not been cured thoroughly, should be preserved from water contact

Surface and Ambient Temperature

The surface and ambient temperature should be between +5°C and +35°C whilst at application.

ADDITIONAL INFORMATION