

## CHIMEX 233

Cement-Acrylic Based, Two Component, Flexible, UV Resistant, Waterproofing Material

### Description

White cement and acrylic based, two components, super elastic waterproofing material with excellent UV resistant.

### Fields of Application

- Indoor and outdoor, horizontal and vertical applications from the direction of water
- Isolation of walkable terrace roofs (only under light weights)
- Wet areas such as bathroom, kitchen, balcony
- Swimming pools, potable and tap water tanks
- Groundwork isolation, retaining walls and basement insulation
- Irrigation channels, manholes, concrete pipes
- Facilities such as spa and hammams
- Against salty water where water impermeability and protection is needed

### Features and Benefits

- Elastic, does not shrink and crack.
- Resistant to UV.
- Water impermeable, resistant to 7 bars positive water pressure.
- Highly resistant to carbon dioxide and chlorine ions.
- Excellent adhesion property.
- Forms a perfect isolation layer under ceramic and screed due to its flexibility and high bonding property.
- High water vapor permeability allows the concrete to breathe.
- Safe to apply on uncovered deck roofs exposed to light loads.
- Provides seamless water isolation without joints.
- Can be used safely in drinking water tanks.

### Technical Data

Content	Component A: Polymer modified admixtures and special cement
Color	Component B: Copolymer acrylic dispersion Off White

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Mixing	25 kg A component : 8 kg B component
Mixture Density	1,80 g/cm <sup>3</sup>
Adhesion Strength	≥1,5 N/mm <sup>2</sup> (28 days)
Flexural Strength	≥3,00 N/mm <sup>2</sup> (EN 196-1)
Elasticity Modulus	≥2000 N/mm <sup>2</sup> (EN 13412)
Water Penetration (DIN 1048)	7 bars pressure no leakage (2 mm dry film thickness)
Capillary Water Absorption	≤0,10 g (after 4 hours) (EN 12808-5)
Water Vapor Coefficient	≥3,64 x 10 <sup>-4</sup> cm <sup>2</sup> /s
Chlorine Ion Diffusion	260 Coulomb (ASTM C 1202)
CO <sub>2</sub> Diffusion Resistance	Sc ≥ 89 cm (1 mm dry film thickness)
Resistance to Pressurized Water	7 bars positive
Pot Life	2 hours
Maturity Period	3-5 minutes
Application Temperature	+5°C to +25°C
Service Temperature	-20°C to +80°C
Drying Time	
<i>Mechanical Strength</i>	2 days
<i>Water Impermeability</i>	7 days
<i>Final Strength</i>	14 days
HS Code	3824.99.70.00.00

## Application Procedure

### Preparation of Substrate

Application substrate must be dry, sound, mainly smooth, clean and fine pored. The application surface must be clean off materials which prevent bonding, such as oil, rust, paint, silicone, curing agents, detergents and paraffin wax. Weak parts of the concrete must be repaired, plasters that are not well adhered must be removed, the surface must be flat and sound, static cracks on the building must be repaired with a plaster containing **LATEX** or **REPAMERK 301**. Holes that have water outflow must be filled with **WATERSHOCK**. The surface must be saturated with water and must be kept moist during the application. On vertical and horizontal corners fillet with min. 4 cm radius must be applied.

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## ***Application Method***

Pour liquid Part B into a clean mixing container and slowly add powder Part A while mixing with a 400-600 rpm mixer. Continue mixing for at least 3-5 minutes until a homogenous and uniform mixture is obtained. Wait for 3-5 minutes and mix again for approximately 30 seconds and becomes ready to use. Prepared **CHIMEX 233** mixture is applied by brush or trowel as two or three layers. Brush application direction in each layer must be perpendicular to each other. Minimum 5 - 6 hours and maximum 24 hours, must be waited after first coat application at +20°C. Second layer must be applied before the first layer is not completely dry. In case the first layer is dry, the surface must be moisturized again before the application of the second layer. The surface must be protected from sunlight and prevented from drying quickly, for 3 days after the application of the second layer. It is recommended to use a mesh between the layers. Using mesh increases the reinforcing properties of the product.

## **Consumption**

1,5 kg/m<sup>2</sup> is applied on each layer. It is recommended that, at least 2 coats application. If application surface will be uncovered, needed 3 coats application.

## **Packaging**

33 kg set

Powder A component: 25 kg kraft bag / Liquid B component: 8 kg plastic drum

## **Shelf Life**

12 months in original, unopened package.

## **Storage**

Store in dry area between +5°C and +35°C. Protect from heat, freezing and direct sunlight.

## **Cleanup Information**

Clean tools and equipment with water immediately after use. Dried material can only be removed mechanically.

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## Cautions / Limitations

- It may be harmful with skin contact.
- Do not apply in freezing conditions or during precipitation.
- After application, material must be protected from losing its water rapidly.
- Protect the surface from direct sun light, wind, frost or rain in 24 hours.
- Protect applied materials from rain, freezing, foot traffic and continuous high humidity until completely dry.
- Do not use when air and surface temperatures are below +5°C and above +25°C.
- Avoid heavy traffic for 24 hours.

## Health and Safety

**Warning!** Cause eye and skin irritation. If eye or skin contact, get immediate medical attention. If swallowed, do not induce vomiting. Call a physician or poison control center. Never give anything by mouth to an unconscious person.


Wash hands thoroughly after handling. Wear protective clothing, gloves, eye and face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Dispose of unused, contents, container and other contaminated wastes in accordance with local, state, federal and provincial regulations.

Keep container closed when not in use. Keep out of the reach of children.

**Limited Warranty:** This product is subject to a written limited warranty which can be obtained free of charge from BAUMERK Company. Please contact with technical service department for further information and support.

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<b>1020-CPR-040 051768</b> <b>DOP NO: 01504-203</b> EN 1504-2:2004 <b>CHIMEX 233</b> Çimento-Akrilik Esaslı, Çift Bileşenli, Esnek, UV Dayanımlı Su Yalıtım Malzemesi Kaplama Uygulaması 2.2/8.2 Cement-Acrylic Based, Two Component, Flexible, UV Resistant Waterproofing Material Coating Application 2.2/8.2	
Water-vapour permeability Su Buharı Geçirgenliği	Sınıf I/Class I $sD < 5 \text{ m}$
Capillary Water Absorption and Water Permeability Kapiler Su Emme Ve Su Geçirgenliği	$w < 0,1 \text{ kg/m}^2 \cdot h_{0,5}$
Measurements of bond strength by pull- off Çekip koparma deneyi yoluyla yapışma dayanımı	$\geq 1 \text{ N/mm}^2$
Response to Fire Yangına Tepki	B s1 d0
Dangerous materials Tehlikeli Maddeler	In accordance with clause 5.3 Madde 5.3e uygun