

IZOMAX® C70 UV

Cement and Polymer Emulsion Based, Two-Component, UV-Resistant Fully Elastic Waterproofing Material

About the Product

IZOMAX® C70 UV is a two-component, fully elastic, UV-resistant, cement and polymer emulsion based waterproofing material designed for demanding conditions involving temperature fluctuation and water pressure. Complies with class CM02P according to EN 14891.

CM: Cementitious waterproofing material applied in liquid form

O2: Crack-bridging ability (-20°C)

P: Bond strength in chlorinated water

Areas of Application

- On terraces left exposed under light foot traffic
- In building foundation and retaining wall waterproofing, applied from the water side
- Wet areas such as bathrooms, kitchens, terraces, and balconies
- Swimming pools
- Drinking and process water tanks
- Seawater channels and areas requiring protection against saline water
- Protection of concrete surfaces against carbonation and chloride attack

Advantages

- Fully elastic waterproofing material
- Waterproof, with a water penetration resistance of 7 bar
- UV-resistant white colour allows use without an additional coating in exposed areas
- Suitable for use in drinking water tanks
- Provides excellent adhesion to the surface
- Can be applied with a brush or sprayer
- Waterproof yet vapour-permeable
- Resistant to atmospheric carbon dioxide and chloride attack
- Resistant to freeze-thaw cycles
- Unlike conventional waterproofing materials, which require 7–28 days of curing on new concrete, this product can be applied within a few hours

Technical Specifications

General Information	
Material composition	Special cement, mineral fillers, liquid polymer emulsion, and special chemicals
Elasticity class	CM02 fully elastic
Appearance	White
Density (mixed)	~1.80 kg/L
Performance Data	
Initial bond strength (EN 14891)	≥ 0.50 N/mm ²
Bond strength after water contact (EN 14891)	≥ 0.50 N/mm ²

Bond strength after heat ageing (EN 14891)	$\geq 0.50 \text{ N/mm}^2$
Bond strength after freeze-thaw cycles (EN 14891)	$\geq 0.50 \text{ N/mm}^2$
Bond strength after contact with chlorinated water (EN 14891)	$\geq 0.50 \text{ N/mm}^2$
Crack bridging +20°C (EN 14891)	$\geq 1.50 \text{ mm}$
Crack bridging -20°C (EN 14891)	$\geq 1.00 \text{ mm}$
Capillary water absorption (EN 1062-3)	$\leq 0.10 \text{ kg/m}^2 \cdot \text{h}^{0.5}$
Watertightness (EN 14891)	Watertight (150 kPa / 7 days)
Water penetration resistance	$\geq 7 \text{ bar}$ (positive)
Application Data	
Application temperature	+5°C / +30°C
Service temperature	-20°C / +80°C
Mixing ratio (powder / liquid)	25 kg powder component / 8 kg liquid component
Pot life	~2 hours
Number of coats	2-3 coats
Waiting time between coats	Min. 5 hours
Waiting time before tiling	Min. 1 day
Time to become watertight	7 days
Full cure time	Min. 48 hours
Time before exposure to use	1 week
Consumption	1.00-1.50 kg/m ² (per coat)
Safety Data	
Hazardous substances	Refer to SDS

The figures stated above are valid at an ambient temperature of +23°C and 50% relative humidity. Higher temperatures shorten the time, while lower temperatures extend it.

Application Instructions

Surface Preparation

The surface to be treated must be sound, dry, clean, free of dust, and load-bearing. The surface must be free of oil, grease, rust, wax, and similar residues that could impair adhesion, as well as loose particles. Active water leaks must be sealed with TAMCRETE® CRM Rapid instant-setting repair material. Voids 5 to 20 mm deep must be repaired at least 48 hours in advance with a suitable TAMCRETE® repair mortar. The surface to be treated must be dampened with water before application, but no standing water should remain on the surface.

Mixing

IZOMAX® C70 UV is a two-component product supplied in ready-to-use quantities. The liquid component (Component B) is placed in a clean container, and the powder component is then gradually added and mixed with a mixer at 400-600 rpm until lumps dissolve. The mixture should be allowed to rest for 3-5 minutes and then mixed for a further minute to bring it to a ready-to-use consistency. The mixture must be prepared using only its own liquid component; water or any foreign material must never be added. Once the mixture has begun to set, it must not be reused. Material must not be prepared in quantities that cannot be used within one hour.

Application

The product is applied in 2 or 3 coats to a pre-dampened surface. Before applying each coat, the previous coat must be allowed to dry sufficiently (minimum 5 hours between coats). Coats must be applied in directions perpendicular to one another. If rapid drying is observed on the first coat, up to 10% water may be added to the liquid component for that coat only. The product can be applied with a brush, roller, or sprayer. In wet-area applications, movement joints and corners must be reinforced with IZOMAX® sealing tape. Surfaces subject to mechanical impact must be protected with a covering such as ceramic tiling. The product must not be applied in very humid and/or hot weather, where there is a risk of frost, in direct sunlight, in strong wind, or in rainy conditions. After application, the surface must be protected from direct sunlight, draughts, and frost for 3 days; if necessary, the surface should be lightly dampened and kept moist. The product can be applied directly to cement-based plasters, screeds, and concrete surfaces. When applying over existing ceramic tiling, the surface must first be prepared with a suitable primer. It must not be applied to timber, particleboard, or metal surfaces.

Cleaning of Tools

All equipment used during application must be cleaned with water before it dries. Once hardened, the material can only be removed mechanically.

Storage Conditions and Shelf Life

Store in the original, unopened packaging in a cool, dry place. The liquid component must be protected from frost. Containers must be tightly resealed when not in use. Caked or solidified material must never be used. Under proper storage conditions, the product has a shelf life of 12 months from the date of manufacture.

Safety Precautions

During application, suitable work clothing, protective gloves, goggles, and a mask should be worn in accordance with occupational health and safety requirements. Due to the irritant effects of the uncured material, the components must not come into contact with skin or eyes; in case of contact, rinse immediately with plenty of water and soap, and seek medical attention immediately in case of ingestion. Food products must not be kept in the areas where the material is applied. Store out of reach of children. Refer to the Safety Data Sheet for further information.

Liability

Our company is responsible only for the quality of the product. Any use of the product beyond the scope of written technical recommendations, including incorrect application or use under unsuitable conditions, is the sole responsibility of the user. For more detailed technical information, please refer to the product catalogue or contact our authorized representatives.

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