

GRADASEAL UVR 205 rapidflex Cement and Acrylic Based, Two- Components, Flexible, UV Resistant, Waterproofing Material for Negative- Positive Applications

Product Technical Document
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Revised

DESCRIPTION

White cement and acrylic based, two components, for negative-positive applications super elastic waterproofing material with excellent UV resistant.

APPLICATION AREAS

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.

ADVANTAGES

Elastic, does not shrink and crack. ▪ Resistant to UV. ▪ Water impermeable, resistant to 7 bars positive, 1,5 bars 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 Resistant to negative and positive water pressure.

TECHNICAL CHARACTERISTICS

Color	White
Bonding Strength	≥ 1.50 N/mm ²
Capillary Water Absorption (TS EN12808-5)	≤ 0.10 gr (after 4 hours)
Pressurized Water Resistance (DIN 1048)	7 Bar Positive 1,5 Bar Negative
Soil Temperature To Be Applied	+ 5°C + 25 °C
Service Temperature	-20°C +80°C
Layer Units To Apply	2-3 Layers
Usage Period of Mortar	45 minutes
Waiting Period Between Layers	Min. 4 hours
Mechanic Strength (Period of Ceramic application on it)	Minimum 3 days
Required period for making water storages available for usage	Minimum 7 days
Intensity	1,35 kg/lt
Full Drying Period	Min. 48 hours
HS Code	3284.99.70.00.00

For +23±2°C temperature and 50±5% relative humidity environment conditions.

SURFACE PREPARATION

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 CONREPA 410. Holes that have water outflow must be filled with SHOCKSTOP JET. 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.

APPLICATION PROCEDURE

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 UVR 205 rapidflex 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/m² 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

Powder Component (A): 10 kg
Liquid Component (B): 10 kg

WARNINGS

*It should be used between +5°C and +35°C.

*No foreign substance should be added within the mortar prepared.

*Mortar, whose usage period ends, should not be re-used by water addition.

*Application should never be made on the surfaces, which are under sunlight for a long time and frozen.

STORAGE AND SHELF-LIFE

Lifetime in unopened original packaging by protecting from sun and frost by 8 layers of Kraft bags stowing in cold and dry environment is 12 months.

SAFETY PRECAUTIONS

During application; working clothes, protective gloves, goggles and mask in accordance with Labor and Worker Safety should be used. Due to corrosive effects of cement materials, they should not come into contact with the skin and the eyes, in case of contact they should be washed with plenty of water and soap, in case of swallowing, medical advice should immediately be sought. Foods and beverages should not be brought to application areas. They should be stored in places out of reach of children. For detailed information, Material Safety Data Sheet should be seen.

LIABILITY

Data included in this technical document is based on our scientific and practical information. GRADA Yapı Kimyasalları A.Ş. is only responsible for the quality of the product. GRADA Yapı Kimyasalları A.Ş. may not be held responsible for the results to occur due to misuses and /or usage out of written advices related to where and how to use the product. * Water proofing product applied in cement liquid form, having crack bridging capability in standards conditions and low temperatures and is resistant to chlorinated water.

GRADA YAPI KİMYASALLARI VE İNŞAAT MALZEMELERİ ÜRETİM SAN. TİC. A.Ş.

Address: Çınardere Mah. Akan Sokak No:15 Kat:2 3 Nolu Bölüm Pendik-İstanbul/TURKEY

Phone: +90 216 379 83 53-52

Fax: +90 216 379 83 51

E-mail: info@grada.com.tr

Web: www.grada.com.tr