

**GRADASEAL WP 100****Cement and Acrylic Based, Two-Components, Elastic Water Sealing Material****Product Technical Document****Issue: 11.10.2017****Revised****DESCRIPTION**

**GRADASEAL WP 100** is two components elastic water sealing material, which is cement and acrylic based and applied positively on concrete, curtain and cement based plastering against leakage and surface waters.

**APPLICATION AREAS**

It is used as sub-ceramic water sealing material in all structures especially in wet places such as balconies, bathrooms, toilets and kitchens municipal water storehouses.

**ADVANTAGES**

- It has high elasticity and adhesion capability
- It provides easy and fast application
- It does not prevent breathing of concrete
- It prevents shrinking cracking
- It provides waterproofing under cement finish and ceramics by means of outstanding adherence and elasticity characteristics

**TECHNICAL CHARACTERISTICS**

Color	A: Gray B: White
Bonding Strength	$\geq 1.00 \text{ N/mm}^2$
Capillary Water Absorption (TS EN12808-5)	$\leq 0.10 \text{ gr (after 4 hours)}$
Pressurized Water Resistance (DIN 1048)	2 Bar Positive
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	2 hours
Waiting Period Between Layers	Min. 5 hours
Mechanic Strength (Period of Ceramic application on it)	Minimum 3 days
Required period for making water storages available for usage	Minimum 3 days
Intensity	1,70 kg/lt
Full Drying Period	Min. 48 hours
Elasticity	110%
Making Water Proofing	7 Days

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

**SURFACE PREPARATION**

The surface, on which application will be made, will be purified from adhesion protective agents such as mold oil, dust, paint, dirt, detergent etc. Failures on surface should be repaired by CONREPA 410 repair mortar before application. Chamfer application should be performed on combination points of sharp corners and construction elements.

**APPLICATION PROCEDURE**

First of all B liquid component is added in a bucket. And then entire agent in the bag, which contains A powder component, is added and it is waited for 4-5 minutes and mixed. Mixed agent is waited for 5 minutes and it is re-mixed and application starts after the air bubbles are removed. Gradaseal WP 100 is applied on concrete surface by brush at least for two layers.

\*The material put on the brush is firstly applied in a thick way (1<sup>st</sup> layer), in order to have desired thickness and flatness, (2<sup>nd</sup> and 3<sup>rd</sup> layers) are applied vertically to one another. \*The material should not be laid by spreading as paint and it should be applied for once and horizontally in order to achieve a good appearance. Gradaseal WP 100 becomes durable to rain a few hours after the rain. It reaches its final resistance 28 days later. It should be cured for 24 – 48 hour after application. \*It should be paid attention to protect the surface from sunlight, rain and frost for at least 3 days during and after the application. \* Floors, on which people will walk through, should be covered by decorative purpose coatings such as cement finish, glazed tiles, ceramics, tiles etc. 3 days after the application.

**CONSUMPTION:** 3-4 kg/m<sup>2</sup>**PACKAGING**

Powder Component (A): Craft bags of 20 kg  
Liquid Component (B): Plastic drums of 5 kg

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**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. REFERENCE STANDARDS TS EN 14891 / April 2008 \* Water proofing product applied in cement liquid form, having crack bridging capability in standards conditions and low temperatures and is resistant to chlorinated water. TYPE: CM Class: OP \* Public Works Pos No: 04.477/2

# CE

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DOP NO:0008

EN 1504-2:2004

GRADASEAL WP 100

Two Components Cement and Acrylic Based Elasticity Water  
Sealing Material  
Coating Application 2.2/8.2

Water Vapour Permeability	Class I sD < 5 m
Capillary Water Absorption and Water Permeability	w < 0,1 kg/m <sup>2</sup> . h <sup>0.5</sup>
Bond Strength By Means of Rending Test	≥1 N/mm <sup>2</sup>
Reaction To Fire	C s1 d0
Hazardous Substances	In Accordance With Article 5.4

[QUALITY INSURANCE MANAGEMENT – ISO 9001]  
[QUALITY INSURANCE MANAGEMENT – ISO 14001]  
[QUALITY INSURANCE MANAGEMENT – OHSAS 18001]

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