

# CRYSTAL PW 25

## Crystalline Waterproofing Powder Concrete Admixture

### Description

**CRYSTAL PW 25** is a waterproofing concrete admixture that reacts with moisture into the concrete and forms crystal fiber on the pores and capillary gaps of concrete to provide permanently water impermeability.

### Fields of Application

- Foundations, basements.
- Tunnels, dams.
- Precast concrete elements.
- Potable water tanks and waste water tanks.
- Water treatment plant.
- Swimming pools.
- Elevator pits.
- Garage.

### Features and Benefits

- Protects the concrete against negative and positive water pressure (14 bars).
- Resistant to extreme hydrostatic pressure.
- Highly resistant to corrosive chemicals.
- Provides permanently active waterproofing. During the curing time, it creates insoluble nano structural crystal into the capillary cracks.
- Non toxic. Safely used in water tanks.
- Protects against water, chloride, and sulfate ingress; increases resistance to chemical attacks
- Water vapor permeable. It allows the building to breath.
- Easy to prepare and apply.
- Suitable for bored piled raft insulation.
- Cover the cracks up to 0.4 mm.
- It becomes an integral part of the concrete and improves the durability of the concrete.
- Provides long term protection even though concrete surface is damaged.
- Does not need to any additional waterproofing applications.
- Does not harm for human health and environment.

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### Technical Data

Content	Active chemicals content special cement
Color	Grey
Appearance	Powder
Mixing	With water
Density	1,04 g/cm <sup>3</sup>
Application Temperature	+5°C to +35°C
HS Code	3824.40.00.00.00

### Application Procedure

#### **Application Method**

Water/Cement ratio should be  $\leq 0,55$ . **CRYSTAL PW 25** is mixed with water as the ratio of 1:0,4 and then added into the mixture and mixed well minimum 5 minutes. After mixing, mixed concrete is poured.

### Consumption

**CRYSTAL PW 25** is added 0,7-2,0 % by weight of cement on the mixture.

### Packaging

25 kg metal pail or 20 kg kraft pack

### 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.

### Cautions / Limitations

- Water/Cement ratio should be  $\leq 0,55$ .
- It may be harmful with skin contact.

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- Do not apply in freezing conditions or during precipitation.
- 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 +35°C.

### 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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<p><b>1020-CPR-040 051770</b> <b>DOP NO: 0934-204</b> EN 934-2:2009+A1:2012 <b>CRYSTAL PW 25</b> Harç ve Betonlarda Kullanılan Kristalize Esaslı Katkı Su Geçirimsizlik Katkıları , Çizelge 9 Crystalline Based Additive Used in Mortar and Concrete Waterproofing Additives, Table 9</p>	
Capillary Water Absorption Kılcal Su Emme	<p>After 7 days of cure, for 7 days of experiment; trial concrete, maximum 50% of the witness concrete; After 90 days of cure, for 28 days of experiment; trial concrete, maximum 60% of the witness concrete 7 günlük kürden sonra , 7 günlük deney için; deneme betonu , şahit betonun en çok % 50'si; 90 günlük kürden sonra, 28 günlük deney için; deneme betonu ,şahit betonun en çok %60'ı</p>
Compressive Strength Basınç Dayanımı	<p>In 28 days, the trial concrete is at least 85% of the witness concrete. 28 günde, deneme betonu, şahit betonun en az % 85'i</p>
Amount of Air in Fresh Concrete Taze Betondaki Hava miktarı	<p>Unless otherwise specified by the manufacturer, The trial concrete is at most 2% higher than the witness concrete by volume. Üretici tarafından aksi belirtilmedikçe, deneme betonu, şahit betonun hacimce en çok % 2 üzerinde</p>
Highest Chlorine Content En Yüksek Klor Muhtevası	%0,08
Highest Alkali Content En Yüksek Alkali Muhtevası	%10,6
Dangerous materials Tehlikeli Maddeler	Does Not Contain Any Hazardous Substances Herhangi Bir Tehlikeli Madde İçermez