

# Zahabiya WATER SHIELD 1K

Rigid Breathable Waterproof Coating

Zahabiya WATER SHIELD 1K is a single component, hydraulic cement based rigid waterproofing coating, specifically designed as economical waterproofing coating solution for both above and below grade construction. The coating completely seals the concrete surface applied upon, thus preventing water infiltration under both positive and negative conditions while maintaining its vapour permeability, allowing the surface to breath naturally.

- Works for both positive and negative pressure Does not alter the water vapour transmission (breathable coating)
- Safe for Potable/ Drinking water contact Excellent Finish
- Applicable of variety of substrates
- Easy to apply

COLOUR:	Grey Powder.
GRANULOMETRY:	0-0.6mm (EN 12192-1)
APPARENT DENSITY:	Powder: 1.14 g/cm <sup>3</sup>
	Mortar: 2.0 g/cm <sup>3</sup> (EN 1015-6)
APPLICATION TEMP.:	5-30°C
POT LIFE:	30 minute
SETTING TIME:	Inital: 1-2 hour (EN 13294)
	Final: 2-4 hour
WATER VAPOUR PERM.:	S <sub>D</sub> < 5 metre (EN ISO 7783-1/-2)
	Class I - Permeable to water vapour (EN 1504-2)
WATER PERMEABILITY:	< 0.1 kg/m <sup>2</sup> .h <sup>0.5</sup> (EN 1062-3)
	Water Impermeable (EN 1504-2)
WATER PENETRATION:	0 mm (no penetration) (EN 12390-8:2001)
	Test Conditions: 5 kg/cm <sup>2</sup> for 72hours
ADHESION :	On Concrete (28 days) > 2.00 MPa / 290 psi
	On Concrete (6 months) > 3.84 MPa / 550 psi
	(Product Cohesive Failure) (EN 1542)
COMPRESSIVE STR.:	> 35.0 MPa/ 5800 psi (EN 12190)
FLEXURAL STRENGTH:	> 10.0 MPa/ 1450 psi (EN 196-1)
SAFETY:	Safe in Handling. Complies with Sec 5.3, EN 1504-2.
	Safe for use in contact with drinking / potable water.
CLEANER:	Excessive mortar and the tools can be cleaned with
	water with the mortar is wet.
STORAGE:	Store in a cool, dry place, at 25-35°C. Keep the product
	away from sunlight & humidity.
SHELF LIFE:	Use within 12 months of manufacturing date. Keep the
	packing airtight after use.

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### **APPLICATIONS:**

Zahabiya Water Shield 1K provides complete and durable waterproofing to concrete and cement mortars on which it is applied, making it an ideal and economical product for waterproofing of numerous substrates including concrete, rendering, cement mortar, concrete block, brick, masonry, etc. Thus, the coating can be used for waterproofing of:

- Concrete structures subjected to positive or negative water pressure, such as basements, foundations, elevator pits, indoor or outdoor walls, etc.
- Swimming-pools, saunas, fountains and water tanks.
- Various structures such as channels, dams, bridges, tunnels and galleries, water treatment plants, etc.

#### APPLICATION METHOD: SURFACE PREPARATION:

- The surface should be solid and free from any pollutant, such as grease, oil, formwork release agents remains, grout, dust, sand, loose materials, etc. Paint and other waterproofing materials remains should be removed.
- Efflorescence and salts should also be removed before application.
- All damaged areas should be prior repaired.
- Any active water leaks should be repaired/ patched using Zahabiya AQUAPATCH.
- Surface should be saturated with water before application of Zahabiya Water Shield 1K.

## COVERAGE:

For best results, a coverage of 0.75 to 1.0kg/m<sup>2</sup> per coat is recommended. Minimum 2 coats are recommended. For areas with high hydraulic pressure such as tanks, swimming pools, 4 coats are recommended.

### **APPLICATION AS COATING:**

- 1. Surface should be saturated with water before application of Zahabiya Water Shield 1K.
- 2. Mix 1K with sufficient amount of water while constant stirring to make a homogenous paste. Normally, 4 parts of powder to 1 part water is sufficient.
- 3. Normally, it is recommended to first mix with small amount of water to create thick paste. Stir till the paste is homogenous and free from lumps. Do not stir very fast otherwise, there would be chances of air entrapment. Once the paste is homogenous, add remaining amount of water while mixing.
- 4. Let the coating mature for 5-10 minutes before application.
- 5. Apply Zahabiya Water Shield 1K on the previous wet/ moist surface by means of short haired stiff brush.

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- 6. Let the first coat dry for 6 to 12 hours, depending upon weather conditions.
- 7. Moist the surface again before application of 2nd coat.
- 8. Apply the second coat in crossway (perpendicular to first coat).
- 9. Damp the coating from time to time to ensure homogenous setting.

### **IMPORTANT:**

- As for any rigid mortar or coating, do not apply the products on substrates, subject to strong movements. For fresh construction, it is best to let the surface settle and stabilise before the application of Water Shield 1K (approximately 2 months).
- Do not apply when the surface and surrounding temperature is 5°C or lower or when either the surface is frosty or frost is expected within 24 hours of application.
- Do not excessively damp the surface when temperatures are low (in case of winter).
- Do not apply on gypsum, lime or painted surfaces.
- Let the coating cure for 10-14 days before filling with water or paint application.
- For surface in contact with drinking water, rinse and wash the surface thoroughly before filling.

The Information & Data contained herein are correct to the best of our knowledge, tests and experience. These are presented in good faith to the users. The recommendations and suggestions mentioned are made without guarantees or representations as to the results. The Consumer should satisfy himself as to the suitability of the product for the intended purpose and use. WE ASSUME; NO LIABILITY for damages of any kind and the user accepts the product 'as is' and without any other warranties,



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