

METHOD STATEMENT



UNDERGROUND TANK

COSTAR BUILDING PRODUCT SYSTEM
Next Generation Solutions For Today's Construction
www.costarchem.com

1. SCOPE

This method statement describes the step by step procedure for waterproofing an underground water tank.

2. DESCRIPTION

This method statement describes the waterproofing of an underground water tank with a waterproofing admixture and membrane for best practice.

2.1 LIMITATIONS


- Products shall only be applied in accordance with their intended use.
- The most recent and relevant Product Data Sheets (PDS) and Safety Data Sheets (SDS) shall apply.
- This method statement is only a guide and shall be adapted to suit local products, standards, legislation or other local requirements.

3. REFERENCES

To ensure correct application of all components of Costar products, please refer to the following documents of each product component:

- PDS (Product Data Sheet)
- SDS (Safety Data Sheet)

4. PRODUCTS

Waterproofing Admixture and Membrane	Product Description
<p>Krystal 1500</p> 	<p>Krystal 1500 reacts with the hydration products of cement to form crystals within the pores and capillaries of concrete structures, thereby effectively blocking the passage of water. It is specifically used for the treatment of concrete and concrete products to protect against water intrusion, leakage, cracking, chemical attack and corrosion of reinforcing steel.</p>
<p>Costar 1k</p> 	<p>Costar 1K is a blend of Portland cement, well graded quartz sand and polymer enhanced chemical ingredients which when mixed with water, forms a waterproof coating for concrete surfaces. It can be used above or below the grade.</p>

5. APPLICATION METHOD/TOOLS

- Mix Krystal 1500 with concrete mix at the rate of 1.5% based on the weight of cement.
- Cast water tank walls and floor with the concrete mix.
- Prevent the concrete from drying out too rapidly. Keep damp for 5-7 days by mist spraying and covering with polythene.
- Once cured, adequate surface preparation is required before the application of the treatment. The surface must be clean, free from dirt or grease and loose particles. The surface should be surface saturated with water.
- The compressive strength of substrate must be at least 25MPa and cohesive bond strength must not be less than 1.5MPa.
- All loose concrete, chippings and dust should be removed, and uneven surface smoothed with the aid of grinding.
- Add the 5 parts of Costar 1K powder to 2 parts of water and mix for at least 3 minutes with a mechanical mixer to a creamy slurry consistency for brush or broom and to a pump-able consistency for spray applications.
- Costar 1K can be left as a brushed finish, or it can be troweled up by a skilled plasterer to a relatively smooth cementitious finish.
- Apply the second coat as soon as the first coat has set, but still "green".
- Protect application from direct sun and wind to prevent premature surface drying and shrinkage cracks.

6. ALTERNATIVE PRODUCTS

- Hydropruf 300 as waterproofing admixture for casting the concrete.
- Krystal Coat as a crystalline waterproofing membrane.

7. INSPECTION, QUALITY CONTROL

As part of "Good Practice" the contractor shall apply an inspection procedure to check the quality of the applied protection system.

8. DISCLAIMER AND COSTAR COMPANY ADDRESS

All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty either expressed or implied. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any supplied materials relieves the user of the obligation to read and follow the warnings and instruction for each product as set forth in the current Technical Data Sheet, product label and Safety Data Sheet prior to product use away.



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