

METHOD STATEMENT



ACTIVE LEAKAGE

COSTAR BUILDING PRODUCT SYSTEM
Next Generation Solutions For Today's Construction

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1. SCOPE

This method statement describes the step by step procedure for stopping leakages in basements, underground tanks etc.

2. DESCRIPTION

This method statement describes the repair and waterproofing of active leakages in basements, floors, underground water tanks etc.

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

		Product Description
Waterproofing	<p>Costar Krystal Plug</p> 	<p>Krystal Plug is 1-component, cementitious non-shrink, hydraulic cement-based on crystalline waterproofing technology. It withstands strong hydrostatic pressure, is breathable, has no odour, no fume & is nonflammable. Krystal Plug ensures permanent impermeability of concrete.</p>
	<p>Krystal Coat</p> 	<p>Krystal Coat is one-component crystalline waterproofing slurry that is specially designed to permanently waterproof both old and new concrete. It lowers the permeability of concrete.</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>

		Product Description
Waterproofing	Hydropruf 300 	<p>Hydropruf WP 300 is an integral waterproofing admixture specially designed to improve the quality of concrete and mortar by waterproofing and reducing the water demand for required workability and minimizes segregation and bleeding.</p>
	<p style="color: #8B0000; font-weight: bold; font-size: 1.2em;">OR</p> Krystal 2000 	<p>Krystal 2000 is hydrophilic crystalline admixture that is specially designed to permanently waterproof concrete. It is specifically designed for use in above and below the grade applications. It lowers the permeability of concrete.</p>

5. INVESTIGATION

Remove tiles or any other floor covering in order to find out the location and cause of the leakage.

6. APPLICATION METHOD/TOOLS

6.1 Application of Krystal Plug to Stop Active Leakage

- Locate leakage in the concrete.
- Cut out the active leak to sound substrate: Start at the highest point and work down.
- Clean the cavity with a sponge, air blower, vacuum, or other suitable means.
- Mix Costar Krystal Plug with water by volume: 1 part water to 4 parts powder (1:4). Mix swiftly to a stiff-putty like consistency for about 30-60 seconds.
- Wait Until The Krystal Plug Begins To Stiffen And Becomes Warm (1 min.).
- Place Krystal Plug into the cavity using gloved hands or a brick jointer and hold firmly in place until it has set (hard, usually in 4 to 5 minutes).

6.2 SUBSTRATE PREPARATION

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.

6.3 Application of Krystal Coat

- Mix 3 parts of Krystal Coat powder with 1 part of clean water and mix for at least 3 minutes with a mechanical mixer to a creamy slurry consistency.
- Apply Krystal Coat either by spray application, brush application or dry-sprinkle and power-trowel or wooden float application. (See method statement for detailed application procedure).
- Apply in 2 coatings (vertically and horizontally).
- Cure for three days to enable Krystal Coat penetrate the concrete.

6.3 Application of Costar 1k (Polymer Modified Coating)

- Add 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.
- Apply Costar 1k with a brush or broom, or spray apply on the concrete surface.
- Leave as a brushed finish or trowel 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".

6.5 Screed with Hydropruf 300 or Krystal 2000

- Mix Hydropruf 300/Krystal 2000 with concrete mix at 250ml to 500 ml per 50kg bag of cement. (See method statement for detailed application procedure)
- Screed at 25mm thickness.

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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