

METHOD STATEMENT



EXPANSION JOINT SEALANT

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 sealing construction joints, contraction joints and expansion joints.

2. DESCRIPTION

This method statement describes the use of Costar expansion joint sealant for expansion joints, contraction joint and construction joint.

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

Expansion Joint Sealant	Product Description
<p>Costar Expanseal 100</p> 	<p>Costar Expanseal is one component polyurethane expansion joint sealant suitable for both vertical and horizontal joint sealing.</p>
<p>Costar Expanseal 200</p> 	<p>COSTA EXPANSEAL 200 is a two-component poly-sulphide joint sealant which, when the Part A and B components are mixed together leads to a chemical reaction, which cures to a firm, flexible rubber like seal with excellent adhesion to concrete, masonry, wood, glass, acrylic, stone, metal and many other common building substrates. It is very flexible and has good chemical resistance. It is suitable for vertical applications.</p>
<p>Costar Expanseal 300</p> 	<p>Costar Expanseal 300 is self-leveling polyurethane sealant ideal for horizontal applications that allows continual movements of the structure caused by thermal changes without cracking.</p>

5. INVESTIGATION

Determine the width and depth of the expansion joint. Also determine if a backer rod will be needed and to what depth it will be needed. For depths up to 50mm and above, use backer rod of 20mm to 25mm to reduce depth. For width more than 30mm to 40mm, use prefabricated metal profiling.

6. APPLICATION METHOD/TOOLS

6.1 Application of Costar Expanseal 100

- Place the backer rod into the joint.
- Place sealant into the gun.
- Cut the nozzle from the farthest end to deliver the right bead size.
- Apply the sealant into joint at a minimum depth of 10mm and width of 20mm.
- Ensure that no air is entrapped in the joint.
- Smoothen the sealant immediately after the application.

6.2 Application of Costar expanseal 200

- Clean the joint surface by wire brush and sanding with emery paper to ensure all surfaces are clean, free of grease, oil, dirt, wax, and other foreign matter.
- Apply Costar primer to the clean and dry surface using a brush prior to the installation of backer rod or bond breaking tape.
- Apply the primer in a thin coat and allow to become tack free prior to the application of the sealant. (Re-prime the joint edges if the sealant installation is not carried out within 3 hours of application of the primer).
- Apply masking tape on both the edges of the groove before applying the primer to obtain a clean and neat finish.
- Pour the hardener (part B) into the base (part A) pail.
- Mix thoroughly with a slow speed drill (300-400 rpm) fitted to a flat bladed paddle for 2-3 minutes till a uniform color and consistency is achieved. (Do not part mix).
- Pour the mixed material directly into the joint from the pail.
- Remove all masking tape applied immediately after the sealant is installed.

6.3 Application of Costar Expanseal 300

- Clean the joint surface by wire brush and sanding with emery paper to ensure all surfaces are clean, free of grease, oil, dirt, wax, and other foreign matter.
- Pour entire contents of Component B into Component A.
- Mix for 5-10 minutes to achieve a uniform consistency with a low speed drill (400-600 rpm).
- Avoid entrapment of air during mixing.
- Apply sealant evenly, if necessary, use masking tape and remove the tape while the sealant is still soft. (Apply sealant in 15 minutes).
- Note: Proper design is 2:1 width to depth ratio. If necessary, use backer rod up to adjust joint depth.

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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