

Method Statement For BCI Joint Sealants

Scope of Work

This method statement applies to the installation of joint sealant on expansion, contraction and isolation joints on concrete paving according to the Project Specification and Requirements of commercial buildings, plants and refinery projects.



Products Covered in this procedure are

1. BC Tec 30 S. One component polyurethane sealant
2. BC Sili fix . One component silicone sealant

Responsibility

Site Manager

The Site Manager shall be the over all in-charge of project work activity to be completed.

He shall implement overall management to the project with respect to contractual obligations, budget planning, resources procurement, construction, quality and safety

Safety Manager

The Safety Manager shall ensure that all necessary safety requirements are adequately addressed before starting new activity. He shall review the construction scope of the work

He shall coordinate with contractor and submit all documents necessary for equipment and valid certificates of operators before working on site.

He shall ensure that all new workers have undergone safety awareness training.

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QC Manager

The QC Manager shall be responsible to ensure, that all sealing works are in accordance with the approved specification requirements as well as the implementation of quality control procedure.

QC Inspector

The QC inspector shall be responsible for the necessary inspections and tests to be carried out for all the activities involved in sealing works.

Civil Supervisor

The Civil Supervisor shall be directly involved in the planning and execution of all activities. He shall be directly involved in execution and preparation of the activities in the sealing work and obtain PTW prior to the commencement of work and Implementation.

Foreman

The Foreman shall be responsible for the direct execution of works according to the

plan and shall directly control and give instruction to the working personnel. He shall also ensure that works are done with utmost care with regards to safety and quality.

Also follows up equipment, materials and tools required. He shall also be responsible for keeping the materials on site properly protected and maintained in good condition. It is his responsibility to oversee the proper use of personal protection equipment and good housekeeping by his crew.

General

- 1) This instruction describes the steps to be taken and sequence of events necessary to enable satisfactory completion of each activity.
- 2) All inspection requirements will be conducted.
- 3) All surrounding equipment on the perimeter of the work area to be sealed shall be protected by means of barricade.
- 4) Expansion, contraction and isolation joints shall be sealed as specified in the standard drawing IFC VB-555105.000
- 5) Work permit shall be secured ahead of time.
- 6) Materials to be used have Material Approval and stored in acceptable storage recommended by the vendor.

Work Procedure

1) Joint Preparation

- a. The purpose of surface preparation is to remove dirt, dust and sand that had been deposited in the dry joints by construction vehicles and runoff.
- b. The filler board in the expansion or isolation joints will be cut to required depth
- c. Contraction joints will be sawed as per required width and depth indicated
- d. The joints will be water blasted by means of pressurized water spray gun and blown dry with compressed air.

3) Sealant Application

Sealant shall be used in accordance with the manufacturer's data sheet and recommendation.

Cut the cartridge top and nozzle to the required size at a suitable angle (between 30 - 40 degree) and attached the nozzle to the cartridge.

Place BC Sili fix in the sealant gun and extrude firmly into the joint while ensuring complete contact between the applied sealant and joint walls.

Tool the sealant surface to insure complete contact and good surface finish.

Remove the masking tape directly after tooling the sealant

Safety Control

- 1) Personal Protective Equipment (face shield, goggles, dust mask, ear plugs and gloves) will be worn at all times.
- 2) Barricading of work areas of equipment shall be checked prior to start the work.
- 3) All equipment for works shall be inspected by JGC/DEC Safety Supervisor/ Officer prior to start of work to ensure their worthiness of work.
- 4) All workers shall be prevented from trespassing into the barricade areas except those who will execute the work. Extended working schedule shall be intimated in advance, proper lighting arrangements, PPE, emergency vehicles and tools shall be arranged with necessary safety personnel engaged in the working area.
- 5) Safety Supervisor JGC/DEC shall carry out the safety site inspections to ensure that safety requirements laid out in Safety Action Plan are followed during the execution of sealant applications.
- 6) Emergency exit point, assembly area, emergency evacuation plan and emergency numbers shall be posted on the boards.
- 7) All personnel involved on the sealing works shall have to undergo Safety Training

7. Quality Control

- 1) The QC Inspectors of JGC/DEC and the ARAMCO PID Representative shall carry out the necessary tests and inspections respectively at various stages of sealing works.as per SA Standards.
- 2) A copy of Manufacturers Technical Data Sheet shall be available for verification to work.

8. Tools & Equipment

- 1) All tools and equipment shall be inspected by HSE department to ensure that the equipment is in good running condition. All damaged, unsafe or defective tools will be marked, tagged as Unsafe or with a Red Paint and shall remove from operation to assure that no one will use such tools on the job.

2). All tools and equipment e.g. hand and power tools etc. require special attention and Protection for their use and guidelines.

3) Electrical Tools and Equipment shall be used in accordance with GFCI requirement.

a. Portable Water Jetting Machine

b. Compressor

c. Mason Tools

d. Carpenter Tools 2.0 Application

Cut the cartridge top and nozzle to the required size at a suitable angle (between 30 - 40 degree) and attached the nozzle to the cartridge.

Place **BC Sili Fix** or **BC Tec S** in the sealant gun and extrude firmly into the joint while ensuring complete contact between the applied sealant and joint walls.

Tool the sealant surface to insure complete contact and good surface finish.

Remove the masking tape directly after tooling the sealant