

Method Statement

Nitoseal PU40-CS

Section A : General Comments

High temperature working

It is suggested that, for temperatures above 35°C, the following guidelines are adopted as good working practice:

- (i) Store the materials in a cool (preferably temperature controlled) environment, avoiding exposure to direct sunlight.
- (ii) Keep equipment cool, arranging shade protection if necessary. It is especially important to keep cool those surfaces of the equipment, which will come into direct contact with the material itself.
- (iii) Try to avoid application during the hottest times of the day, arrange temporary shading as necessary.
- (iv) Make sufficient material, plant and labour available to ensure that application is a continuous process.

Equipment

It is suggested that the following list of equipment is adopted as a minimum requirement.

Protective clothing : *Protective overalls*
Good quality gloves, goggles and face mask

Preparation equipment : *Stiff wire brush / proprietary blasting equipment*

Application equipment : *Fosroc Jumbo Gun or suitable air operated caulking gun*

Application - points of note

Fosroc operates a policy to encourage the use, where possible, of approved or licensed applicators. This ensures that repairs are completed satisfactorily so that the long-term performance of the materials is assured. For contractors who wish to apply the materials themselves Fosroc is also able to offer technical assistance and training, either on-site or at its Training Centre in Dubai.

Section B : Application Method

1.0 Joint Preparation

- 1.1 The joints to be sealed shall be dry, clean, sound and free of all contamination such as oil, grease, paint etc. New concrete joints shall be free of all laitance and other loose particles. Existing joints shall be free of all traces of previous sealant and primer.
- 1.2 Where contamination exists, joints shall be thoroughly cleaned out using a suitable mechanical method such as grit-blasting, water-blasting or grinding. Rust, scale and any coatings or contamination shall be removed from metal surfaces.

Al Gurg Fosroc LLC

Post Box 657, Dubai
United Arab Emirates

telephone:
(+9714) 2039699

fax:
(+9714) 2859649

email:
agf@fosroc.com

www.fosroc.com

Registered Office: 215 Community, Street No. 13, Nad Al Hamar Road, Al Ramool Industrial Estate, Rashidiya, Dubai





constructive solutions

- 1.3 The joint sealant shall be applied to joints between 6 and 50 mm wide. A suitable backing material such as bitumen-bonded fibre board, expanding cork board or circular foam rod shall be inserted into the joint to create a depth in line with the following requirements:

Joint width

6 to 12 mm wide:

Over 12 mm wide

(Maximum 50mm wide) to a maximum of 25 mm depth

Note: The following minimum depths shall be ensured:

Joint depth

depth equal to joint width

depth to be half the joint width

6 mm - metals, glass and other non-porous surfaces

10mm - all porous surfaces

Joints expected to experience continuous cyclic movements should be designed to be applied at an optimum width to depth ratio of 2:1 subject to the over-riding depth requirement of 6 mm. Sealant slot widths are to be designed to the recommendations of BS 6093. The chosen backing material shall be of a suitable thickness so that a tight fit into the joint is achieved.

- 1.4 Use Expancell or Hydrocell XL backing cord to achieve the correct joint profile. In case of shallow joints, use Nitoseal Debonding Tape.
- 1.5 A suitable debonding tape shall be inserted over the top of the backing material to prevent any possible adhesion of the new sealant to the base.
- 1.6 Strips of masking tape (50 mm wide) shall be applied on each side of the joint to prevent possible contamination of the surrounding areas while the joint sealing application takes place.
- 1.7 The prepared joints shall be thoroughly cleaned out using a compressed air line immediately before commencing the sealing operation.

2.0 Priming

- 2.1 For optimum bond in high movement conditions (not to exceed specified movement of 25% butt joint) and where specified by the client primers should be used as follows:
- 2.2 The walls of all joints shall be correctly primed in full accordance with the manufacturer's requirements. No other material or priming system shall be permitted. Priming is not an alternative for poor surface preparation.
- i) The joint sealant primer shall be as follows:
 - ii) For porous surfaces (including concrete, other cementitious surfaces, rendering, plaster, brickwork, stone, timber and unglazed edges of ceramic tiles) - use Fosroc Primer 7E.
 - iii) Iron and steel shall be primed with an anti-corrosion primer. Ask the manufacturer for details.
- 2.3 Fosroc Primer 7E shall be applied with clean brush ensuring complete coverage. Care should be taken to ensure that only the side walls of the joint are coated with primer. The primer shall be allowed to cure for 20 minutes to 3 hours to reach a state of "tack free" prior to application of the



constructive solutions

sealant. The joints which are not sealed within a maximum of 3 hours must be re-primed before continuing.

3.0 Application

- 3.1 Mask the edges of the joints with masking tape. This is not mandatory and depends upon the applicator.
- 3.2 Cut the end off the threaded stub on cartridge, screw on nozzle and cut nozzle to desired bead size at a 45° angle.
- 3.3 The sealant which is supplied in a foil cartridge, shall be installed into a fully extended Fosroc Jumbo Gun tube, as supplied in its foil sausage. Once in position the foil end still exposed at the front end (away from the plunger) shall be cut off with a clean sharp knife or scissors.
- 3.4 Extrude the sealant firmly in to the joint to give complete wetting of the surface.
- 3.5 Nitoseal PU40-CS shall be applied into the prepared joint cavity by slow even pressure being applied onto the pistol grip of the Gun and extruding the product into the cavity. Care should be taken to avoid air entrapment and that the speed of progress ensures total filling of the joint.
- 3.6 Tooling of the sealant must be carried out immediately after application, using a joint shaping tool soaked in detergent solution.
- 3.7 The masking tape shall be removed immediately application is complete. The completed sealant installation shall be protected and allowed to cure for not less than 3 days before exposing to traffic
- 3.8 Remove the masking tape, if used, from the edges of the joint.

4.0 Cleaning

- 4.1 Clean the uncured sealant by wiping with rags soaked in Fosroc Solvent 102.

Section C : Approval and variations

This method statement is offered by Fosroc as a 'standard proposal' for the application of Nitoseal PU40-CS. It remains the responsibility of the Engineer to determine the correct method for any given application. Where alternative methods are to be used, these must be submitted to Fosroc for approval, in writing, prior to commencement of any work. Fosroc will not accept responsibility or liability for variations to the above method statement under any other condition.