

GUJARAT STATE POLICE HOUSING CORPORATION
LIMITED, RAJKOT

:: ATTACHED SPECIFICATIONS ::

Name of Work: Remaining work of Special Repair to Police Staff Quarters Cat. B-24 (G+2) at Salaya and Internal Trimix Road For Marine Police Station at Vadinar, Dist.-DevBhumiDwarka (Including Electrification).

Item No.: 16 :

Providing and fixing water closet squatting pan (Orissa type W.C. Pan) size 580 mm. (Earth work, bed concrete and trap to included). Vitreous china. Long pattern white colour.

1.0 Materials

1.1 Water closet squatting pan (Indian type W.C. Pan) shall conform to M-42. Cement mortar shall conform to M-11

2.0 Workmanship

2.1. The pan shall be sunk into the floor and embedded in a cushion of average 15 cm, cement concrete 1:5:10 (1 cement 5 fine sand 10 graded stone aggregate or brick aggregate 40 mm nominal size) or as specified. This concrete shall be left 115 mm. below the top level of the pan so as to allow for flooring and its bed concrete The floor should be suitably sloped so that the waste water is drained into the pan. The pan shall be provided with 100 mm. 'P' or 'S' trap as specified in the item No.23.113 with approximately 50 mm. seal the joints between the pan and the trap shall be made leak-proof with cement mortar 1:1 (1 cement 1 fine sand)

3.0 Mode of measurements and payments

3.1 The rate shall include the cost of all materials and labours involved in the operations described under workmanship.

3.2 The rate shall be for a unit of one number for a completely commissioned unit.

Item No.: 42 :

Providing Groove cutting in C.C. Road including cleaning etc. Complete as per direction of Engineer in charge

❖ **Workmanship**

- The contraction/sawed joints to be formed at by grooving with mechanical saw within 48 hrs. The width of 5mm and depth of the groove sawed joint should as shown in drawing, operation should be carried out as soon as concrete is ready to accept the saw cut with toweling.



❖ **Mode of measurement:**

- The rate shall be inclusive of labor, grooves, machinery cost.
- The item shall be measured and paid in Rmt. (Running meter).

Item No.: 43:

Providing and fixing 25 mm diameter backup rod having minimum density 22 kg per cum (ASTMD - 3575) & compression strength of 0.40 kg per sqm (ASTM 5249) and finishing with polysulphide sealant etc. complete. For 20 mm wide expansion joint

Scope & General Requirement:

Backer Rods are manufactured from closed cell polyethylene, are non-absorbing, are U.V resistant and have excellent weatherability properties.

A Backer Rod is a cylindrical kind of foam, designed to be used in constructional projects, mainly for filling gaps or joints where materials come together.

Advantages:

Non-absorbent

Excellent weatherability

No bitumen contents

Acts as a bond breaker

Lightweight

Resistant to ultraviolet light

Ability to compress and recover

Suitable for submerged or trafficable joints

Application Area:

Backer Rod are used in joints in pre-cast and cast-in-situ concrete elements to give support to the joint sealant application, aid in the correct joint sealant geometry (application depth and shape) and prevent the joint sealant from adhering to the top of the expansion joint filler board (3-way bonding), acting as a bond breaker. Below are some more usages of Backer Rod:

Repairs

Partitions

Pavement Joints

Expansion Joints

Log Construction

Glazing Operations

Window And Door Applications

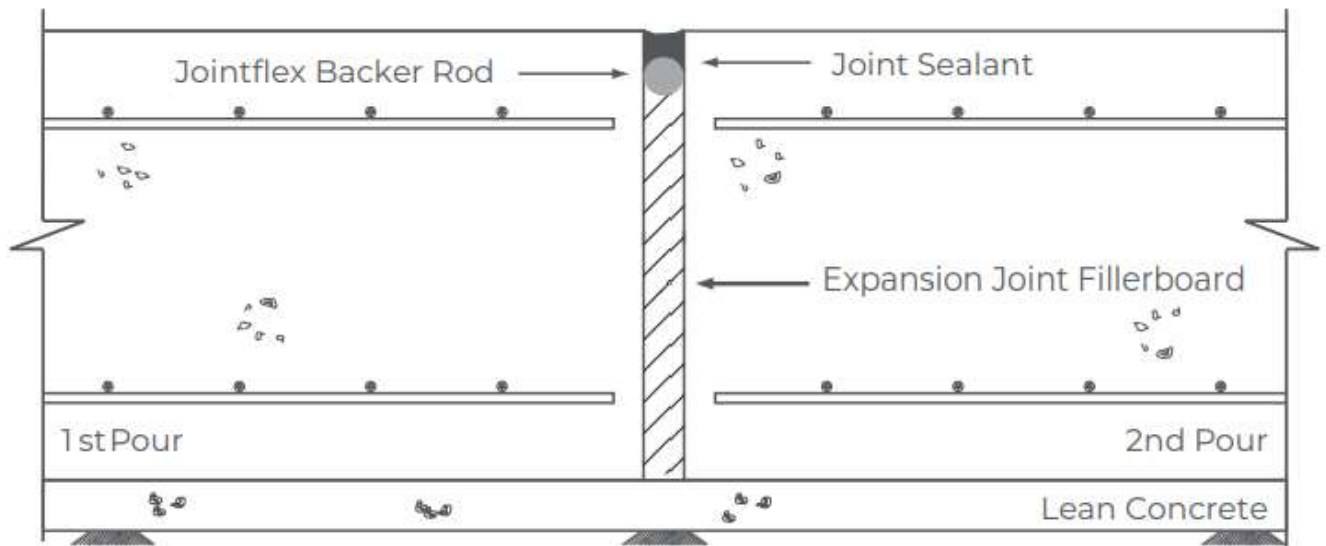
Technical Specifications:

Size	5,10,15,25,29 mm
Colour	White
Density	22-35 Kg/m ³
Temperature Range	-30 to 120 ° C
Water Absorption	1.5% ~3.5%
Packaging Type	Roll
Contraction Percentage	0.4%

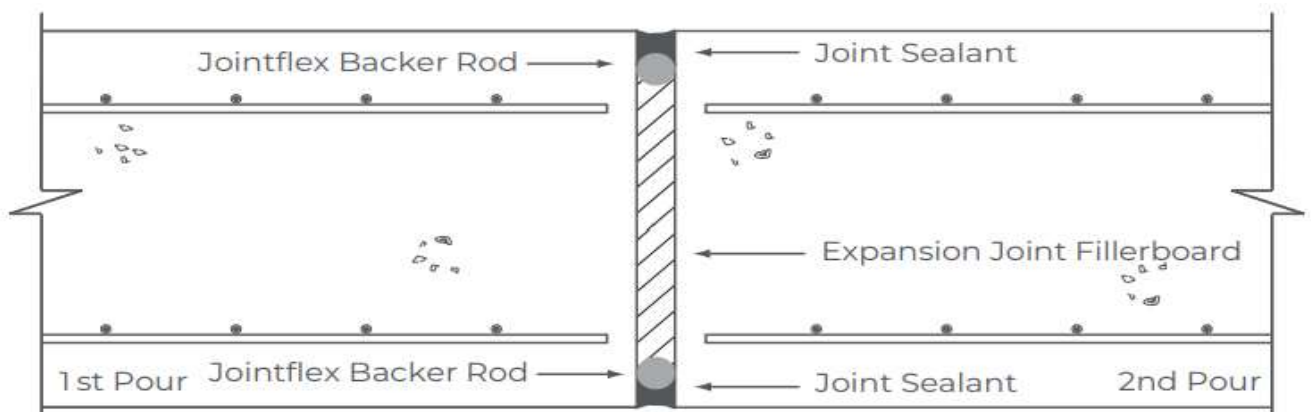
Available Sizes

Backer Rod are available in roll lengths for round shapes and available in lengths of 1 metre, 1.5 metre and 2 metre for square sections. Standard diameter sizes are 6mm up to 80mm. Section sizes are as follows: 10mm x 10mm, 15mm x 15mm, 20mm x 20mm and 25mm x 25mm. Custom diameter and section sizes can be easily manufactured to suit.

Typical Application (Technical Diagram):



EXPANSION JOINT IN SLAB ON GROUND



EXPANSION JOINT IN WALL

Preparation of Joint Grooves for Sealing

All Grooves shall be cleaned of any dirt or loose material by air blowing with filtered, oil free compressed air. If need arises, cleaning by pressurized water jets may be done depending upon the requirement of the sealant, the sides of the grooves may have to be sand blasted to increase the bondage between sealant and concrete. The Groove shall be cleaned and dried at the time of priming and sealing.

Sealing with sealants

When sealants are applied an appropriate primer shall also be used in accordance with the recommendation of the manufacturer. The Sealant shall be applied within the minimum and maximum drying times of the primer. Priming and Sealing with applied sealants shall not be carried out when the when the temperature of the Pavement is below 7 degree celcius.

Mode of measurement and payment

The rate includes cost of all materials, tools and labour involved in satisfactory completion of work.

The rate shall be for unit of one Rmt .

Measurement shall be in Rmt

Signature of the contractor

I/c Executive Engineer

GSPHC Ltd., Rajkot