

POLYUREA WPE

APPLICATION METHODOLOGY

- Treating the construction joints and damp areas by Injecting cement slurry mixed with expanding agent **Cebex 100** using pressure grouting pump with a pressure of 3 to 4 kg/sq.cm.
- Surfaces of roof slab shall be free from frost, surface laitance and contamination.
- Surface preparation by mechanical means to remove laitance, loose particles, which may hinder bond strength of the waterproofing system.
- Pressure grouting construction joints and honeycomb areas with cement grout mixed with **Cebex 100** at 225gram/bag of cement.
- Coving the junction of slab and vertical offsets with CM 1:3 mixed with **Conplast WL**.
- Bore packing shall be done with micro concrete **Conbextra GP2**.
- Application of primer **Nitoprime 31** to seal the pores leave it to form tacky condition,
- **Fosroc Polyurea WPE** system sprayed over using heated two component spray equipment @ 1.5mm thick on the above said surface
- **Protect layer** : Screed concrete shall be provided Min thickness of 50mm M-20 GRADE of concrete and finish or As per the Consultants Specification.

METHODOLOGY FOR POLYUREA COATING SYSTEM

1. SURFACE PREPARATION:

- Surface shall be grinded by using surface grinding machine to remove debris, loose particles, oils, grease, and organic growth, traces of shuttering and curing compound.
- After the grinding is duly completed, the surface shall be cleaned by using Tar brush, soft brush and air blowers.
- Once the surface is cleaned, all Cracks, Concrete imperfections, irregularities, bug holes etc., shall be marked along with your Engineer – In charge.
- The Cracks, Concrete imperfection, irregularities, bug holes, etc., shall be treated with Fosroc product

2. APPLICATION OF PRIMER:

- Once again the surface shall be cleaned from dust and other particles.
- The ready surface shall be applied with Nitoprime 31. The primer coat shall be even and completely cover the surface.
- Allow the primer to touch dry and the area shall be coated by polyurea with in 24 hours.

3. APPLICATION OF POLYUREA COATING SYSTEM:

- Once the primer becomes tack free status, the Polyurea coating shall be applied Fosroc Polyurea WPE is a two part high pressure Polyurea formulation system having the highest physical properties.
- Fosroc Polyurea WPE is a two component 100% solid, Polyurea system shall be applied using high pressure heated plural component proportional spray unit.
- The applied Polyurea shall obtain a seam less continuous film, which not tear, crack or puncture.
- Fosroc Polyurea WPE shall be applied in pre – marked areas that can be coated at one time. The dimensions of the area are a function of applicators endurance, but it is recommended that the width shall be 2 – 3 meters. The length is not the factor as the applicator can continue to walk backwards for the entire length of the floor.
- Polyurea allow for single monolithic applications to any desired dft. Level. The Polyurea shall be sprayed in unidirectional manner to achieve desired thickness.
- To achieve 1.50 mm two coat is required. Subsequent coat required to achieve the desired thickness, shall be applied within 24hours.

4. PROTECTION LAYER :

Screed concrete shall be provided Min thickness of 50mm M-20 GRADE of concrete and finish or As per the Consultants Specification.

Approval and variations

This method statement is offered by Fosroc as a “standard proposal” for the application of **Polyurea WPE**. 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