

**INDUSTRY: BUILDING SEGMENT**

**CONDITION: Constant forklift & hard plastic wheel trolley movement, some Impact.**

**TRAFFIC: HEAVY DUTY**

**BOQ**

ITEM NO	DESCRIPTION OF THE ITEMS	UNIT
8.1	<b>HOTELS – ROOMS &amp; CORRIDORS</b>	sqm
8.11	<b>Self-smoothing, cementitious Underlay floor compound at 3mm, - Cemtop 250-T</b>	
a.	<b>Surface Preparation:</b> New concrete should be at least 28days old. The substrate should be clean, sound and free from loose material and contamination such as plaster, oil, paint and grease. Excess laitance should be removed by light scabbling or blasting followed by washing and vacuuming to remove dust debris. Light oil and grease staining can be removed with proprietary chemical degreaser, followed by washing with clean water.	
b.	<b>Priming:</b> The purpose of priming is to seal the substrate, to prevent air release from forming bubbles and pinholes in the surface of the Cemtop 250T. The substrate should be primed using Nitoprime 33. The primer should be applied by brushing it onto the floor with a stiff brush or broom. The application of primer by roller and spray is not recommended. On VDC floors, Nitoprime 33 should be diluted with clean water (1 part Nitoprime 33 with 5 parts of water) and spread on the floor. Porous substrates require a two-coat application of Primer. Nitoprime 33 should be diluted with clean water (1 part Nitoprime 33 with 3 parts water) and spread on the floor. The second coat (1:3 dilutions) should be applied after 90 minutes or after the first coat is dry. Puddling and ponding of the primer must be avoided as this can lead to failure at the bond line. Extremely porous substrates will require at least two priming coats. In this case, allow the previous coat to dry before applying the subsequent coats. The surface should be pre-soaked with wet hessian for several hours prior to priming and application.	
c.	<b>Cementitious floor Levelling compound:</b> providing mixing and laying to the areas indicated shall be applied with the self-smoothing, cementitious floor compound shall be <b>Cemtop 250T</b> is a blend of specially selected cements, graded aggregates, polymers and set control additives. It is supplied as a dry, grey powder which requires only the addition of water to produce a smooth free flowing and self-levelling material which can be laid to a feather edge up to 3mm. This provides an ideal fairing material for levelling uneven, in situ or precast concrete floors.. It shall be capable of sustaining foot traffic within 10 to 18 hours, when applied at an ambient temperature of 27C. It shall further show an indentation of less than 3 mm at 28 days, when tested in accordance with the BRE Screed Test. Cost Inclusive of Supply, apply equipment's. Exclusive of GST as applicable, Client shall provide Storage, Power, water, etc. Flooring work shall be executed by Fosroc Authorised Applicator.	
8.12	<b>Epoxy Coving- Nitoflor TF5000 : Size 75mm x 75mm</b>	rmt
a.	<b>Surface Preparation:</b> Removing all laitance and any surface sealer or curing membrane by mechanical means such as shot-blasting, grinding or light scabbling to	

	the level of sound concrete After surface preparation, all loose debris and dirt should be removed by vacuum equipment.	
b.	<b>Priming:</b> Priming is not normally required provided the substrate is sound, untreated, dry and good quality concrete. If any doubts exist of the quality of the concrete, contact the local Fosroc office for advice. For highly absorbent concrete substrate, <b>Nitoprime 25</b> shall be used to seal the pores.	
c.	<b>Epoxy Coving:</b> All the right angle junction on the floor and walls has to be provided with coving using <b>Nitoflor TF5000</b> a three part solvent-free combination of epoxy resin, modified amine hardeners filled with specially graded and selected high crushing strength, chemically inert aggregates with properties Compressive strength BS 6319-Pt 2 - 70 N/mm <sup>2</sup> , after application of prime coat with <b>Nitoprime 25</b> over the prepared surface. Followed by <b>Nitocote VF</b> epoxy putty for a smooth finish on the cover, to receive the finish coats using <b>Nitoflor FC 150</b> , a solvent free high build epoxy of the approved shade shall be applied with roller brush or paint brush. Work shall be executed by Authorised applicator with supply & application and completed as per the manufacturer's Specification.	
8.13	<b>Expansion joints</b>	rmt
a.	<b>Surface preparation:</b> Clean the surface and remove any dust, unsound or contaminated material, plaster, oil, paint, grease, corrosion deposits or algae, Oil and grease deposits should be removed by mechanical means.	
b.	<b>Priming:</b> Prime sealing slot surfaces with Primer No. 20 using a clean dry brush. Colpor 200 must be applied between 30 minutes and 2 hours after priming.	
c.	<p><b>PU Sealant:</b> Providing mixing and laying PU Sealant at the designated joints are to be sealed using Fosroc <b>Colpor 200PF</b> over the Backer rod of <b>Expancel</b> which shall position on the <b>filler board of Hydrocel XL of the Expansion joint</b> , pavement sealant manufactured by Fosroc to BS 5212: 1990 and U.S.Federal Specification SS-S 200E:1984.. Colpor 200PF has a <b>movement accommodation factor of 30% in butt joints</b>.. To ensure the sealant operates within its stated <b>movement capacity of 30%</b>, the width of sealing slots should be designed in accordance with the recommendations of IRC-57-2006. In trafficked areas <b>the expansion joint width should not generally Exceed 30 mm.</b></p> <p><b>Joint depth:</b> In trafficked areas the sealing slots should be constructed so that at no time during the anticipated operating cycle of the joint will the sealant protrude above the surface of the concrete pavement. It is necessary to recess the level of the sealant 5 to 8 mm below the pavement surface, dependent on the time of year and temperature prevailing at the time of sealing.</p> <p><b>Note:</b> The width to depth ratio of the Colpor 200PF seal should be 1:1 to 1½:1 subject to a minimum 10 mm depth of sealant (example, contraction joint: 15 mm wide x 13 mm depth; expansion joint: 25 mm wide x 20 mm depth). Complete as per the manufacturer Instruction. Cost Inclusive of Supply, apply, Equipment's. Exclusive of GST as applicable. Client shall provide Storage, Power, water, etc. Flooring work shall be executed by Fosroc Authorised Applicator.</p>	