

INDUSTRY: AUTOMOBILE
CONDITION: Severe Heavy loaded traffic and Impact
TRAFFIC: VERY HEAVY DUTY
BOQ:

ITEM NO	DESCRIPTION OF THE ITEMS	UNIT
1.2	PRESS SHOP	
	Option-1	
1.21	Epoxy Screed at 5.0mm and Self Levelling Epoxy Topping @ 1.0mm	sqm
1.22	Epoxy Screed : Nitoflor TF 5000 at 5.0mm	
a.	<p>Surface preparation: It is essential that Nitoflor TF5000 is applied to sound, clean and dry surfaces in order that maximum bond strength is achieved between the substrate and the flooring system.</p> <p>New Concrete floors: Should be at least 28 days old (moisture content should be less than 5%). Laitance deposits on new concrete floors are best removed by light grit-blasting, mechanical scabbling or The system includes Nitoprime 25, a two part epoxy resin primer. Nitoflor TF5000 & Nitoprime 25 supplied in preweighed units ready for onsite mixing and application. The finished, cured floor has a slightly granular texture of uniform colour a suitable epoxy shall be applied as a topcoat for Nitoflor TF5000.</p> <p>Old Concrete Floors: Again mechanical cleaning methods are strongly recommended on old concrete floors particularly where heavy contaminations by oil and grease have occurred or existing coatings are present. This may well have been absorbed several mm. into the concrete. To ensure adhesion, all contamination should be removed. All dust and debris should be removed prior to laying Nitoflor TF5000.</p> <p>Steel Surfaces: Should be degreased and sand blasted immediately prior to application primer.</p>	
b.	<p>Epoxy Screed: Providing mixing and laying Epoxy Screed Underlay to the primed substrate using Nitoflor TF5000 a three part solvent-free combination of epoxy resin, modified amine hardeners filled with specially graded and selected high crushing strength, chemically inert aggregates. It is laid by trowel as a durable chemical resistant screed at 5 mm thickness depending on the requirement. This nominal thickness provides an impervious topping which is highly chemical resistant. The finished, cured floor has a slightly granular texture of uniform colour. Shall have property of Compressive strength Pt 2 BS 6319 70 N/mm², Flexural strength Pt 3 BS6319 25N/mm² Tensile strength BS6319 14 N/mm², Pt 7 N/mm². Bond strength (Elcometer to concrete pull off test) 3.0 N/mm², .Cost Inclusive of Supply ,apply,Equipments. Exclusive of GST as applicable. Client shall provide Storage, Power, water, etc. Flooring work shall be executed by Fosroc Authorised Applicator.</p>	
1.23	Epoxy Self Levelling Topping over Epoxy Screed at 1.0 mm - Nitoflor SL1000	
a.	<p>Priming: All surfaces treated with Nitoflor SL1000 should be primed with Nitoprime 25, a solvent based epoxy resin primer designed. Add the entire contents of the hardener tin to the base tin and mix the two primer components thoroughly for at least 2 minutes - under no circumstances should part mixing be considered. Once mixed, the primer</p>	

	<p>should be applied immediately to the prepared substrate using stiff brushes and/or rollers. The primer should be well 'scrubbed' into the substrate to ensure full coverage, but care should be taken to avoid over application or 'ponding'. Allow the primer to dry (see table below) before proceeding to the next stage, do not proceed whilst the primer is 'tacky' as this will lead to unsightly marks in the finished surface. However, they should be in accordance with the following ambient application temperatures.</p>	
b.	<p>Epoxy Topping: Providing mixing and laying to the designated floor areas shall be surfaced with Nitoflor SL1000, at 1.0 mm thick floor-applied epoxy resin floor topping. Nitoflor SL1000 consists of graded aggregates bound in a pigmented epoxy resin binder. It is supplied as a four component system, pre-weighed for on-site mixing. When laid, it provides a smooth, light-reflective surface. It is available in a range of RAL K5 classic colours. The topping shall achieve a minimum compressive strength of 50 N/mm² and a flexural strength of 25 N/mm² at 7 days when tested to BS6319. At 27°C, it shall be capable of accepting foot traffic at 24 hours and Light vehicular traffic at 48 hours. Cost Inclusive of Supply, apply, equipment. Exclusive of GST as applicable. Client shall provide Storage, Power, water, etc., Flooring work shall be executed by Fosroc Authorised Applicator.</p>	
	Option-2	
1.24	Heavy duty polyurethane based floor screed at 5 mm and polyurethane Sealer Coat - Nitoflor TF120 UB	sqm
1.25	Heavy duty polyurethane based floor screed, 5 mm resistant to steam, hot water	
a.	<p>Surface Preparation: It is essential that Fosroc Nitoflor TF120 UB is applied to sound, clean and dry surfaces in order that maximum bond strength is achieved between the substrate and the flooring system. All dust and debris should be removed prior to application of the product or its primer.</p> <p>New concrete floors: Should be at least 14 days old (at 20°C) with maximum moisture content not exceeding 5%. Laitance deposits on new concrete floors are best removed by light grit blasting, mechanical scrubbing or grinding.</p> <p>Old concrete floors: Again, mechanical cleaning methods are strongly recommended on old concrete floors particularly where heavy contamination by oil and grease has occurred or existing coatings are present. These may well have been absorbed several millimetres into the concrete. To ensure adhesion, all contamination should be removed; hot compressed air and Nitocote RI are recommended for this purpose. Proprietary chemical degreaser may be used on small areas of light contamination only. Any damaged areas or surface irregularities should be repaired using one of the Nitoflor EU*† range of products.</p> <p>Steel surfaces: Steel surfaces should be degreased and grit blasted to SA2½ immediately prior to application. Clean steel surfaces should be primed with Nitocote Primer Sealer prior to the application.</p>	
b.	<p>Priming : All surfaces treated with Fosroc Nitoflor TF120 UB should be primed with Nitocote Primer sealer a solvent free primer designed for maximum absorption and adhesion to the Substrate. Add the entire contents of the hardness tin into the base tin and mix thoroughly. Once mixed immediately apply the primer in a thin continuous film to the clean prepared surfaces, Work the primer into the surface and Nitocote Primer Sealer will be absorbed very</p>	

	Quickly leaving characteristic light coloured dry patches. It is recommended that a second priming coat is applied in these areas. While still wet, dress the surface with ½kg/m ² of Antislip Grain No. 3 to provide a key for the application of Fosroc Nitoflor TF120 UB. Ensure that the primer is touch dry prior to the application of Fosroc Nitoflor TF120 UB.	
c.	Polyurethane screed: Providing mixing and laying to the designated floor areas shall be surfaced with Fosroc Nitoflor TF120 UB is a polyurethane based floor screed designed for use at thickness between 5 mm .The product is formulated specifically to withstand thermal Shock, freeze/thaw cycles and chemical attack. The product is supplied as a four-component system (including colour pack), pre-weighed for on-site mixing. Standard colours include brick red, grey and mid green Cured system shall have following. Compressive strength (BS 6319) part 2, 1983 : 85 N/mm ² .,Flexural strength (BS 6319) part 3, 1990 : 25 N/mm ² , Tensile strength (BS 6319) part 7, 1985 : 15 N/mm ² , Impact resistance : No damage or (BS 8204) deterioration Resistance to fungal growth (ASTM G21) : Passes Abrasion resistance (ASTM D4060 @ 1000 cycles) :0.05 grams loss	
1.26	Nitoflor TF 120 as a Sealer Coat over Polyurethane screed	
a.	Polyurethane Sealer Coat: Providing mixing and Applying to the designated area as a Sealer coat with a mixed binding compound of Fosroc Nitoflor TF120 UB . This binder consists of base, hardener and colour pack (excluding filler). The preliminary application of Fosroc Nitoflor TF120UB must have reached initial cure and high spots such as trowel marks rubbed down prior to the application of the Fosroc Nitoflor TF120 UB sealer complete as per the manufacturer Instruction.	
1.27	PU floor Coving: Nitoflor Coving UT size - 75mm x 75mm	rmt
a	Surface Preparation: 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.	Priming: Priming is carried out using a mix of Part A and Part B only. Thoroughly drain the contents of the hardener component into the base component and mix for a minimum of 1 minute or to provide a homogeneous mix. Apply by roller or brush and spread uniformly at the rate of approximately 5m ² /1kg set depending on the substrate. Nitoflor Coving UT must be applied wet to wet onto the primed surface before the primer is cured	
c.	Polyurethane coving mortar: Providing and applying 3 components, Water based Polyurethane coving mortar Nitoflor Coving UT topped with a sealer coat Nitoflor HB 200UT of Fosroc make. The substrate shall be prepared properly prior laying UT coving, priming the surface with suitable primer as recommended in the manufacturer datasheet @ 12.5m ² /2.5kg set depending on the substrate. Laying Nitoflor Coving UT 1.8 - 2.0 kg/m ² /mm thickness wet to wet onto the primed surface before the primer is cured. Followed by applying 3 components Water-based high-build polyurethane coating sealer coat Nitoflor HB 200 UT in 2 coats 6 m ² per 4.75 kg pack per coat@ 200microns WFT per coat. Fosroc Nitoflor HB200 UT is available in a range of standard Fosroc colours. Complete as per the manufacturer Instruction.	
1.28	Expansion joints	rmt
a.	Surface preparation: 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.	Priming: 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.	PU Sealant: Providing mixing and laying PU Sealant at the designated joints are to be sealed using Fosroc Colpor 200PF over the Backer rod of Expancel which is position on the filler board of Hydrocel XL of the Expansion joint , pavement sealant manufactured by Fosroc to BS 5212: 1990 and U.S.Federal Specification SS-S 200E:1984.. Colpor 200PF has a movement accommodation factor of 30% in butt joints.. To ensure the sealant operates within its stated movement capacity of 30% , the width of sealing slots should be designed in accordance with the recommendations of IRC-57-2006. In trafficked areas the expansion joint width should not generally Exceed 30 mm. Joint depth: 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. Note: 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.	