

BOQ

FOSROC POLYUREA WH200- Spray applied water proofing membrane

SI.No.	Item Description	Unit	Rate
1	Podium Waterproofing: Landscape, Water Bodies, Swimming pools etc.		
1.01	Surface Preparation: Remove all surface laitance and contamination free from loose aggregate or other sharp protrusions with fairly smooth finish by wire brush and grinding method and surface shall be DRY for application.		
1.02	Treating the Construction Joints :	Rmt	
	Chase opening the Construction Joints by providing “ V ” groove, removing the dust and clean the designated area following by providing chemical injection treatment in the form of pressure grouting to the cold joint by injecting cement slurry mixed with grout admixture Cebex 100 @ 225 gms per bag of cement, in the required consistency through the pre fixed PVC nozzles in the 18 mm dia holes, fixing of PVC nozzles with Renderoc Plug and final cutting the projected nozzles and sealing off the PVC nozzles after the injection operation is over with Renderoc plug, non-shrink rapid setting mortar compound, finishing, curing etc. as per manufacturers specification and as directed.		
1.03	Coving:	Rmt	
	Providing and Applying at the junction of slab and vertical offsets with Cement Mortar 1:4 and admixed with Conplast WL at dosage of 125ml per bag of Cement at a size of 75 mm x 75 mm.(Cement & Sand shall be supplied free of cost at the point of execution)		
1.04	Bore Packing:	Nos	
	Preparing the inside surface of core and PVC by roughening using suitable file to get better adhesion prior to packing works. Cleaning the surface by wire brushing followed water jet to remove any laitance or loose flaky particles. Providing necessary formwork for packing the bore using suitable arrangement (depending upon site conditions). Applying a coat of styrene- butadiene based polymer coating using Nitobond SBR to enhance adhesion between the packing material and other surfaces. Packing the gap using non-shrink cement polymer based grout using Conbextra GPI upto the surface of the bore whilst the Nitobond SBR is in tacky state introducing Supercast SWX of a 5mm		

	thickness for at circumference of pipe at the middle. The above analysis is based on assumption for 150mm diameter core with 110mm diameter PVC for 5" thick slab only. Typical Properties Compressive strength at 28day as per BS 1881 45N/mm ² , completely as per the manufacturer's Instruction.		
1.05	Waterproofing System: Polyurea WH200@ 1.5mm -	Sqm	
	Application of primer Nitoprime 31 to seal the pores (subject pores the coverage may consume more). Followed by Fosroc Polyurea WH 200 must be applied at 1.5 mm thick utilizing high-pressure, heated two component Graco spray proportioning equipment. Fosroc Polyurea WH 200 sprayed to achieve the required thickness of 1.5 mm. self-cured waterproofing layer /seamless membrane shall exhibits the following properties. Solids by Volume : 100%, Tensile Strength ASTM D-412 :>13 MPa (N/mm ²), Tear resistance ASTM D624C : 50(N/mm ²), Elongation ASTM D-412 : >450%, Abrasion (1kg, CS17 wheels) : 19mg /1000 cycles, Shore -D ASTM D2240 :80 DIN EN ISO 5470, Abrasion (1kg, CS10 wheels) : 1.3 mg/1000 cycles ASTM D4060 etc., Cost includes supply, mixing, application, labour, surface preparation, etc. Power, water, storage of material shall be provided free of cost and rate excluding of GST as applicable.		
1.06	Protection Layer(Horizontal) : Providing, batching, mixing, transporting through transit mixers, pumping and laying controlled Screed Concrete of M20 grade at all levels and heights specified below using ordinary Portland cement of grade 53 from approved manufacturer, river sand, 12mm and down size coarse aggregates, Integral Waterproofing admixtures Conplast WL approved by Consultants including all leads and lifts, pumping using line pump or boom placer, vibrating/ compaction, curing as directed at all heights and depths as instructed. To smooth finish and impression marking 300 x 300 Square with 3 mm rod /thread-markings. Treatment to continue along the vertical surface for 300mm height in shape of round wata, curing etc. *Civil Contractor scope	Sqm	
1.07	Landscape / Flower Beds/ Planter Boxes waterproofing : Antirroot Polyurea WH200		
	Filtration Layer: (In Landscape contractor Scope) Providing and loosely laying Drainage/filter board infused with geotextile on the Screed prior filling with soil and vegetation. Filter board retains the soil and filter out the water, and ensures smooth water drainage.as per the contractors drawing		