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No. E-in-C/PWD/Works/NMET/2021/ 3070

dated: 31.08.2021

OFFICE MEMORANDUM

Sub: Approval of New products of Water proofing on trial basis.

The Engineer in Chief, PWD has approved two New products of water proofing for incorporating in NIT's of PWD Delhi for a period of 2 years from the date of issue of this OM.

The details of the water proofing items for Terraces, Podium slabs, Landscape, Non Tower Areas are enclosed as Annexure.

Enclosure: A and B

प्रदीप
31/8/21

Director (Works)

1. All Chief Engineers, in PWD, GNCTD, New Delhi.
2. All Superintending Engineers in PWD, GNCTD, New Delhi (through e-Mail).
3. All Executive Engineers in PWD, GNCTD, New Delhi. (through e-Mail).

प्रदीप
31/8/21

Director (Works)


18/8/21
27/8/21

Amex A

AR For Waterproofing of Large Terraces, Podium slabs, Landscape and non tower areas.

SN	Item / Product Description	Unit	Qty	Rate	Amount
1	After the entire surface preparation has been completed in all respects on the concrete surface and the surface is completely dry, , providing and applying a solvent based elastic polyurethane primer by brush or a lamb wool roller at the specified application rate of 0.150 kg/ sqmt on the prepared substrate. The elastic polyurethane primer should have an adhesive strength of 4 Mpa, tensile strength of 30 Mpa, Fire rating EN 13501-1: Class E, Viscosity 23°C, mPas: 45 + 5 and Density : 0.95 + 0.05.				
	Note:- The concrete surface shall be made free from all the depression/undulations, dust dirt, laitance and all the adhesion inhibiting material. Depressions, holes, and any undulations on the entire surface, if any, shall be treated/filled with high strength polymer modified mortar and the surface should be fully repaired and leveled. The rate of surface preparation are included in this item				
2	Details of cost for 1 sqm				
3	Product Rate of Velosit PU 412 in Rs / Kg				
4	The quantity of product sqm in 1 coats is 0.150 kg as per recommended specifications Considering wastages @ 5 %	Kg	0.16	675	108.00
5	labour for surface preparation and application of two coats	sqm	1	125	125.00
6	Sundries	LS			15.00
	Total	W			248.00
7	Add 1% of water charges on W				2.48
	Total	X			250.48
8	Add GST on X (multiplying factor 0.1405)				35.19
	Total	Y			285.67
9	Add 15 %CPOH on Y				42.85
	Total				328.52
10	Add cess @1%				3.29
	Total				331.81
11	Final Cost in Rs / Sqm				331.81

of velosit or PU 412 or equivalent

Modified as correct

 A-100,

AR For Waterproofing of Terraces, Podium slabs, Landscape , non tower areas.

SN	Item / Product Description	Unit	Qty	Rate	Amount
1	After the entire surface preparation has been completed and Polyurethane primer has been applied on the concrete surface, Providing and laying a solvent based, single component, high elastomeric, high performance, moisture-cured, liquid-applied polyurethane waterproofing treatment that cures to form a reflective, UV resistant, seamless and monolithic waterproofing membrane to non-tower and like areas areas by a soft bristle brush or short nap roller and work in two perpendicular coats observing an 8 to 24 hour waiting interval between coats depending on prevailing temperature at a total consumption rate between 1.50 & 1.60 kg/square meter depending on the concrete surface. The product should have a Solid content of 89 % (+/- 2 %) as per (ASTM D1353), Maximum elongation of 750 % (+/- 50) as per (ASTM D412), Tensile strength of 40 kg/cm ² as per (ASTM D412) , Adhesion to concrete > 20 kg/cm ² as per (ASTM D4541) , Shore A hardness of 80 (+/- 2) as per (ASTM D2240), Capillary absorption of 0.01 kg/m ² xh0.5 as per (EN 1062-3), Reaction to fire (EN 13501-1): Euroclass F. The coating shall be continued to the entire horizontal area and should be terminated at 300mm above the FFL complete as per manufacturer's specification. The Polyurethane liquid product should be CE certified fulfilling the requirements of EN 1504-2 as a protective coating.				
	Note:- The concrete surface shall be made free from all the depression/undulations, dust dirt, laitance and all the adhesion inhibiting material. Depressions, holes, and any undulations on the entire surface, if any, shall be treated/filled with high strength polymer modified mortar and the surface should be fully repaired and leveled. The rate of surface preparation are included in this item.				
2	Details of cost for 1 sqm				
3	Product Rate of Velosit PU 452 in Rs / Kg				
4	The quantity of product sqm in 2 coats is 1.5 - 1.60 kg as per recommended specifications Considering wastages @ 5 %	Kg	1.63	550	896.50
5	labour for surface preparation and application of two coats	sqm	1	125	125.00
6	Sundries	LS			15.00
	Total	W			1036.50
7	Add 1% of water charges on W				10.37
	Total	X			1046.87
8	Add GST on X (multiplying factor 0.1405)				147.08
	Total	Y			1193.95
9	Add 15 %CPOH on Y				179.09
	Total				1373.04
10	Add cess @1%				13.73
	Total				1386.77
11	Final Cost in Rs / Sqm				1386.77

Modified on 10/11/2017

B
C/100