GLAZED PORCELAIN TILES

DESIGN QUALIFYING REPORT

DIGITAL PRINTING RUSTIC MATT COLLECTION (CEMENT)

SIZE 450X900	CODE & NAME		
		M/1DC	HERITAGE CEMENT WHITE
		M/2DC	HERITAGE CEMENT YELLOW
		M/5DC	HERITAGE CEMENT GREEN

FEATURES

Natural cement with a wide range of colours in a plain surface, imitating the beauty of natural cement and value adding features of glazed porcelain tiles. The elegance of the cement is given by medium random decorations

DEMENTION & SURFACE QUALITY

		Description of the Test	Test Method	International Specification	Royal Porcelain Value
1		Length & Width (Average)	ISO 10545.2	Set by Manufacture	450 mmX900 mm (Squared)
		Deviation in Length & Width	ISO 10545.2	± 0.6 %	Max ± 0.05 %
2		Thickness (Average)	ISO 10545.2	Set by Manufacture	10.6 mm
		Deviation in Thickness	ISO 10545.2	± 10 %	Max ± 1.0 %
3		Straightness of Sides	ISO 10545.2	± 0.5 % (Max 2 mm)	0.2 % (Max) (1.0 mm)
4		Rectangularity	ISO 10545.2	± 0.6 % (Max 4 mm)	Rectified (Diagonal ±0.3mm)
5		Surface Flatness	ISO 10545.2	± 0.5 % (Max 2 mm)	0.2 % (Max) (1.8 mm)
6		Surface Quality	ISO 10545.2	Min 95 %	Min 95 %

PHYSICAL PROPERTIES

7		Water Absorption by mass (Average)	ISO 10545.3	< 0.5 %	0.2% (Max 0.3 %)
8		Modulus of Rupture	ISO 10545.4	> 35 N/mm^2	40.0 N/mm^2
9		Abrasive Resistance (Maximum)	ISO 10545.6	Set by Manufacture	Class IV (4000revolutions)
10		Moh's Scale Hardness	EN 101	Set by Manufacture	7.0 – 7.5
11		Density	ISO 10545.3	> 2.0 g/cc	2.4 g/c
12		Colour Resistance to light	ISO 10545.16	Resistance	Resistance

THERMAL PROPERTIES

13		Thermal Expansion	ISO 10545.8	< 90.0 X 10^{-7} $°C^{-1}$	74.0 X 10^{-7} $°C^{-1}$
14		Moisture Expansion	ISO 10545.10	Nil	Nil
15		Resistance to Thermal Shock	ISO 10545.9	Min 10 Cycle	Resistant
16		Resistance to Crazing	ISO 10545.11	Min 4 Cycle	Resistant
17		Frost Resistance	ISO 10545.12	Resistance	Resistant

CHEMICAL PROPERTIES

18		Chemical Resistance	ISO 10545.13	Resistant	Resistant
19		Resistance to Stains	ISO 10545.14	Min Class III	Class V

RANDOMNESS & DISPLAY OF THE TILES

20		Display of Tiles	At least 4 tiles should be properly displayed to express random effect

APPLICATIONS

Product features are with high abrasion resistance and high scratch hardness. As such,it is indicated for flooring commercial areas (like shops, hotels etc) but not in high traffic public area as well as this is suitable for domestic use (living room, corridors, open veranda, car porch etc) . Also it is suitable for wet areas (open veranda etc) since the matt surface is not slippery.

Prepared by:-	Manager - QA, R &D	Date	20-Feb-14
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