

PORCELAIN TILES TECHNICAL SPECIFICATION



Some Guidance About Commonly Affected Stains

SR NO.	SUBSTANCE	NANO TREATED SURFACE	REGULAR SURFACE
A	DOMESTIC AREA		
1	Green Vegetable Stain	Wet Cotton Cloth	Mild Detergent
2	Fruits Stain	Wet Cotton Cloth	Mild Detergent
3	Dal-samber	Wet Cotton Cloth	Citric Acid / Lemon
4	Curry	Wet Cotton Cloth	Citric Acid / Lemon
5	Tomato Sauce	Wet Cotton Cloth	Citric Acid / Lemon
6	Soya Sauce	Wet Cotton Cloth	Mild Detergent / Citric Acid / Nimbbu
7	Edible Oil	Wet Cotton Cloth	Baking Soda / Mild Detergent / Acetone/ Turpentine
8	Sindur-oil Mix	Wet Cotton Cloth	Baking Soda / Mild Detergent / Acetone/ Turpentine
9	Ghee	Wet Cotton Cloth	Baking Soda / Mild Detergent / Acetone/Turpentine
10	Tea	Wet Cotton Cloth	Mild Detergent / House Hold Cleaner
11	Coffee	Wet Cotton Cloth	Mild Detergent / House Hold Cleaner
12	Cold Drinks	Wet Cotton Cloth	Mild Detergent
13	Wax	Wet Cotton Cloth	Paint Remover
14	Lead Pencil	Wet Cotton Cloth	Plain Water / Hydrochloric Acid
15	Normal Color Pencil	Wet Cotton Cloth	House Hold Detergent
16	Wax Pencil	Wet Cotton Cloth	Paint Remover
17	Water Color	Wet Cotton Cloth	Plain Water
18	Marker	Wet Cotton Cloth	Dilute Sulphuric Acid
19	Nail Polish	Neil Polish Remover	Nail Polish Remover
20	Shoe Polish Liquid Stain	Wet Cotton Cloth	House Hold Detergent
21	Cherry Shoe Polish	Wet Cotton Cloth	Wet Cotton Cloth
22	Hair Dye	Dilute Nitric Acid	Dilute Nitric Acid
23	Mehendi	Dilute Hydrochloric Acid	Dilute Hydrochloric Acid
24	Lipstick	Wet Cotton Cloth	Hydrogen Peroxide / House Hold Cleaner
25	Ink	Wet Cotton Cloth	Acetone/Turpentine/Trichloroethylene

B	MISCELLANEOUS PLACE		
1	Paints	Wet Cotton Cloth	Paint Remover / Methyl Ketone / Toluene
2	Epoxy / Resin	Wet Cotton Cloth	Trichloroethylene / Dichloro Methane
3	Glue	Wet Cotton Cloth	Acetone / Turpentine
4	Rust	Wet Cotton Cloth	Hydrochloric Acid
5	Tar	Wet Cotton Cloth	Trichloroethylene / Methyl Ethyl Ketone
6	Tyre Mark	Wet Cotton Cloth	Methyl Ethyl Ketone
7	Cement	Wet Cotton Cloth	Hydrochloric Acid
8	Blood	Wet Cotton Cloth	Dilute Nitric Acid
9	Grease	Wet Cotton Cloth	Detergent
10	Mobil Dil	Wet Cotton Cloth	Detergent
11	Methelene Blue	Wet Cotton Cloth	Phosphoric Acid / Hydrochloric Acid

SPECIFICATION OF WINASA CERAMICA

	CHARACTERISTICS	STANDARD AS PER ISO-13006/ En14411 GROUP BIa	MEAN VALUE OF WINASA CERAMICA	TEST METHOD
A	REGULATORY PROPERTIES			
1	Deviation In Length & Width	±0.50%	±0.10%	ISO 10545-2
2	Deviation In Thickness	±5.00%	±2.00%	ISO 10545-2
3	Straightness of Sides	±0.50%	±0.10%	ISO 10545-2
4	Rectangularity	±0.50%	±0.10%	ISO 10545-2
5	Surface Flatness	±0.50%	±0.10%	ISO 10545-2
6	Color Difference	Unaltered	No Change	ISO 10545-16
7	Glossiness	As Per Manufacturer	Min 70%	Glossometer

B	Structural Properties			
1	Water Absorption	≤0.50%	≤0.05%	ISO 10545-3
2	Apparent Density	2.00 gm/cc	> 2.28 gm/cc	DIN 51082

C	Massive Mechanical Properties			
1	Flexural Modulus Of Rupture	Min 35 N/mm ²	Min 40 N/mm ²	ISO 10545-4
2	Flexural Breaking Strength	Min 1300 N	Min 2000 N	ISO 10545-4
3	Impact Resistance	As Per Manufacturer	Min 0.55	ISO 10545-5

D	Surface Mechanical Properties			
1	Deep Abrasion Resistance	Max 175 mm ²	Max 132 mm ²	ISO 10545-6
2	Moh's Hardness	Min 6	8*	EN 101

E	Therma Hydrometric Properties			
1	Frost Resistance	No Damage	Frost Proof	ISO 10545-12
2	Thermal Shock Resistance	No Damage	No Damage	ISO 10545-9
3	Moisture Expansion	Nil	Nil	ISO 10545-10
4	Thermal Expansion	Max 9.0 x 10 ⁻⁶	Max 6.5 x 10 ⁻⁶	ISO 10545-8

F	Chemical Properties			
1	Chemical Resistance	No Damage	No Damage	ISO 10545-13
2	Stain Resistance	Resistant	Resistant	ISO 10545-14

G	Safety Properties			
1	Slip Resistance (Friction Co-Efficient)	>0.40	>0.40	ISO 10545-17

Packing Detail - Glazed porcelain tiles					
SR. NO	Nominal Size	Nominal Thickness	No. Tiles per Box	Coverage Area per Box	Weight Per Box
1	30x60 cm	8.5 mm	5 Pcs.	0.9 Sq. Mtr.	17.5 Kg. (Approx.)
2	60x60 cm	8.5 mm	4 Pcs.	1.44 Sq. Mtr.	26.5 Kg. (Approx.)
3	60x120 cm	8.5 mm	2 Pcs.	1.44 Sq. Mtr.	27.5 Kg. (Approx.)
4	80x80 cm	9.0 mm	3 Pcs.	1.92 Sq. Mtr	39.5 Kg. (Approx.)
5	20x120 cm	9.0 mm	5 Pcs.	1.2 Sq. Mtr	24.5 Kg. (Approx.)

* Immedam cleaning active is the best way
NB.:CHEMICALS REFERENCE ARE FOR FIRST AID SUGGESTION FOR ANY DETAIL PLEASE CONTACT COMPANY PERSONNEL

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CERAMIC WALL TILES TECHNICAL SPECIFICATION

SR NO.	CHARACTERISTICS	EURO STANDARDS EN-159/IS13753	MEAN VALUE OF WINASA CERAMICA
A DIMENSION & SURFACE QUALITY			
1	Dimension & Surface Quality	0.5%	0.4%
2	Deviation in Thickness	0.6mm	0.5mm
3	Straightness of sides	0.3%	0.2%
4	Rectangularity	0.5%	0.3%
5	Surface Flatness	0.5%	0.5%
6	Surface Quality	Min.95%	Min.96%
B PHYSICAL PROPERTIES			
1	Water Absorption	>10%	12-15%
2	Bending Strength	>150 kg/Cm	150-180 kg/cm
3	Scratch Hardness (mohs scale)	Min 3	Min 3
4	Crazing Resistance	1 Cycle	No Crazing Upto 4 Cycles
5	Relavent	B III	B III
6	Type of Tiles	Wet Cotton Cloth	Dust Press Wall Tiles
C CHEMICAL PROPERTIES			
1	Staining Resistance	Min Class 2	Resistant to all Acids and Alkalines & Household Chemicals, except Hydro Fluoris Acid
2	Household Chemical	Min Class B	
D THERMAL PROPERTIES			
1	Thermal Shock Resistance	Resistant 10 Cycles	CONFORMS
2	Thermal Expansion	Max. 9E-06	CONFORMS

Packing Detail - Ceramic tiles					
SR.NO	Nominal Size	Nominal Thickness	No. Tiles per Box	Coverage Area per Box	Weight Per Box
1	30x60 cm	9.0 mm	5 Pcs.	0.9 Sq. Mtr.	13.5 Kg. (Approx.)
2	20x60 cm	9.0 mm	6 Pcs.	0.72 5q. Mtr.	11.5 Kg. (Approx.)

APPLICATION AREAS



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