

# CORIAN® ENDURA™ PROPERTIES

Technical Features	Reference Standard	Test Results
% Water Absorption	ISO 10545-3	Average value 0.08%
Resistance to Low Concentrations of Acids and Alkalis.	ISO 10545-13	ULA-ULB (Satin/Mineral)
Frost Resistance	ISO 10545-12	Resistant
Scratch resistance	UNI EN 15186:2012 met.B	Class A
Moisture Expansion	ISO 10545-10	0.01% (0.1mm)
Breaking Strength in N (Thickness > 7.5 mm)	ISO 10545-4	12 mm Average value 5,500 N
		20 mm Average value 14,000 N
N/mm <sup>2</sup> Flexural Strength Test	ISO 10545-4	12 mm Average value 53 N/mm <sup>2</sup>
		20 mm Average value 52 N/mm <sup>2</sup>
Compression Strength	ASTM C170M-16	Breaking tension 527.9 MPa sample deformation 0.86 mm.
Impact Resistance	EN 14617-9	12 mm Average value 3.03 J
Non-Combustibility	ASTM E136	12 mm – PASS, Weight loss 0.76 %
		20 mm – PASS, Weight loss 0.00 %
Test for Surface Burning Characteristics of Building Materials	ANSI/UL723 (ASTM E84, NFPA 255)	12 mm Flame Spread Index (FSI): 0 Smoke Developed Index (SDI): 0
		GREENGUARD
Volatile Organic Compound Emission	UL 2818	GREENGUARD Gold
Linear Thermal Expansion	ASTM C372	6.23 x 10 <sup>-6</sup> /°C (average over -20° to 80°C) 3.46 x 10 <sup>-6</sup> /°F (average over --4° to 176°F)
Crazing Resistance of Fired Glazed Whitewares by Autoclave Treatment	ASTM C424	No Crazing Observed
Resistance of Ceramic Tile to Chemical Substances	ASTM C650-20	No Effect
Standard Test Method for Determination of Mohs Scratch Hardness of Ceramic Tile	ASTM C1895	Mohs Scratch Hardness 7
Standard Test Method for Moisture Expansion of Fired Whiteware Products	ASTM C370-12	Average Moisture Expansion 0.007%
Standard Test Method for Bond Strength of Ceramic Tile to Portland Cement	ASTM C482-02 (modified)	Substrate: USG Durock ½" Cement Board. Adhesive: Laticrete Tri-Lite Tile and Stone Adhesive Average Bond Strength: 200 psi for 12 mm Corian® Endura™. Failure mode was cohesive failure within mesh backing.
Standard Test Method for Determining Visible Abrasion Resistance of Glazed Ceramic Tile	ASTM C1027-19	Apparent visual difference in gloss or color after 150 revolutions
Relative Resistance to Deep Abrasive Wear of Unglazed Ceramic Tile by Rotating Disc	ASTM C1243-93	Average Volume 53.4 mm <sup>3</sup>
Determination of Resistance to Staining	ASTM C1378-20	Satin Finish No Visual Effect after Cleaning Procedure A; Running Hot Water for 5 minutes

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