

## TECHNICAL DATA SHEETS

# DEKTON XGLOSS

Name and identification  
Product: Dekton® Xgloss  
Code: Families I - II – III

Manufacturer's name and place of production:  
Company: Cosentino S.A.U.  
Address: A-334 road, km 59, postal code 04850 Cantoria (Almeria) - Spain

# TECHNICAL DATA SHEET DEKTON XGLOSS - FAMILY I

According to ASTM Standards (American Society for Testing and Materials)

(Blaze, Korso, Lumina, Manhattan, Sogne, Spectra, Splendor)

Test	Standard	Determination	Unit	Family I
Moisture expansion	ASTM C370	Average moisture expansion	%	0.02
Breaking strength	ASTM C648	Average breaking strength	lbf	3963
Flexural properties	ASTM C674	Average modulus of rupture	psi	8990
Water absorption, apparent porosity	ASTM C373	Average water absorption	%	0.03 (Impervious)
Static coefficient of friction (skid resistance)	ASTM C1028	static coefficient of Friction wet	-	0.96
		static coefficient of Friction wet	-	0.56
Wet dynamic coefficient of friction (DCOF)	ANSI A137.1 section 9.6	Average DCOF	-	≤ 0.21
Relative resistance to wear (Taber abrasion)	ASTM C501	Average Abrasive Wear Index	-	182.2
Thermal shock resistance	ASTM C484	Defects	-	No defects
Bond strength	ASTM C482	Average bond strength	psi	423
Resistance to chemical substances	ASTM C650	Common Household and cleaning chemicals Acetic acid, 3% (v/v)		
		Acetic acid, 3% (v/v)	-	Not affected
		Acetic acid, 10% (v/v)	-	Not affected
		Ammonium chloride, 100 g/L	-	Not affected
		Citric acid solution, 30 g/L	-	Not affected
		Citric acid solution, 100 g/L	-	Not affected
		Lactic acid, 5% (v/v)	-	Not affected
		Phosphoric acid, 3% (v/v)	-	Not affected
		Phosphoric acid, 10% (v/v)	-	Not affected
		Sulfamic acid, 30 g/L	-	Not affected
		Sulfamic acid, 100 g/L	-	Not affected
		Swimming pool chemicals		
		Sodium hypochlorite solution, 20 mg/L	-	Not affected
		Acids and bases		
		Hydrochloric acid solution, 3% (v/v)	-	Not affected
		Hydrochloric acid solution, 18% (v/v)	-	Not affected
Potassium hydroxide, 30 g/L	-	Not affected		
Potassium hydroxide, 100 g/L	-	Not affected		
Absorption and bulk gravity	ASTM C97	Average weight percent absorption	%	0.02
		Average density	lb/ft <sup>3</sup>	156
Modulus of rupture	ASTM C99	Average modulus of rupture dry conditions	psi	8128
		Average modulus of rupture wet conditions	psi	7490
Flexural strength	ASTM C880	Average flexural strength dry conditions	psi	6840
		Average flexural strength wet conditions	psi	6205
Compressive strength	ASTM C170	Average compressive strength dry conditions	psi	34409
		Average compressive strength wet conditions	psi	17823
Abrasion resistance	ASTM C1353	Average index of abrasion	-	349

# TECHNICAL DATA SHEET DEKTON XGLOSS - FAMILY II

According to ASTM Standards (American Society for Testing and Materials)

(Halo, Fiord, Tundra, Glacier, Natura, Natura I8, Vienna)

Test	Standard	Determination	Unit	Family II
Moisture expansion	ASTM C370	Average moisture expansion	%	0.005
Breaking strength	ASTM C648	Average breaking strength	lbf	4896
Flexural properties	ASTM C674	Average modulus of rupture	psi	8836
Water absorption, apparent porosity	ASTM C373	Average water absorption	%	0.05 (Impervious)
Static coefficient of friction (skid resistance)	ASTM C1028	static coefficient of Friction wet	-	0.96
		static coefficient of Friction wet	-	0.56
Wet dynamic coefficient of friction (DCOF)	ANSI A137.1 section 9.6	Average DCOF	-	≤ 0.21
Relative resistance to wear (Taber abrasion)	ASTM C501	Average Abrasive Wear Index	-	337
Thermal shock resistance	ASTM C484	Defects	-	No defects
Bond strength	ASTM C482	Average bond strength	psi	437
Resistance to chemical substances	ASTM C650	Common Household and cleaning chemicals Acetic acid, 3% (v/v)		
		Acetic acid, 3% (v/v)	-	Not affected
		acetic acid, 10% (v/v)	-	Not affected
		Ammonium chloride, 100 g/L	-	Not affected
		Citric acid solution, 30 g/L	-	Not affected
		Citric acid solution, 100 g/L	-	Not affected
		Lactic acid, 5% (v/v)	-	Not affected
		Phosphoric acid, 3% (v/v)	-	Not affected
		Phosphoric acid, 10% (v/v)	-	Not affected
		Sulfamic acid, 30 g/L	-	Not affected
		Sulfamic acid, 100 g/L	-	Not affected
		Swimming pool chemicals		
		Sodium hypochlorite solution, 20 mg/L	-	Not affected
		Acids and bases		
		Hydrochloric acid solution, 3% (v/v)	-	Not affected
		Hydrochloric acid solution, 18% (v/v)	-	Not affected
Potassium hydroxide, 30 g/L	-	Not affected		
Potassium hydroxide, 100 g/L	-	Not affected		
Absorption and bulk gravity	ASTM C97	Average weight percent absorption	%	0.04
		Average density	lb/ft <sup>3</sup>	160.63
Modulus of rupture	ASTM C99	Average modulus of rupture dry conditions	psi	9042
		Average modulus of rupture wet conditions	psi	8446
Flexural strength	ASTM C880	Average flexural strength dry conditions	psi	3118
		Average flexural strength wet conditions	psi	4187
Compressive strength	ASTM C170	Average compressive strength dry conditions	psi	> 55000
		Average compressive strength wet conditions	psi	> 55000
Abrasion resistance	ASTM C1353	Average index of abrasion	-	349.48

# TECHNICAL DATA SHEET DEKTON XGLOSS - FAMILY III

According to ASTM Standards (American Society for Testing and Materials)

(Arga, Qatar, Taga)

Test	Standard	Determination	Unit	Family III
Moisture expansion	ASTM C370	Average moisture expansion	%	0.004
Breaking strength	ASTM C648	Average breaking strength	lbf	3932
Flexural properties	ASTM C674	Average modulus of rupture	psi	9005
Water absorption, apparent porosity	ASTM C373	Average water absorption	%	0.01 (Impervious)
Static coefficient of friction (skid resistance)	ASTM C1028	static coefficient of Friction wet	-	0.96
		static coefficient of Friction wet	-	0.56
Wet dynamic coefficient of friction (DCOF)	ANSI A137.1 section 9.6	Average DCOF	-	≤ 0.21
Relative resistance to wear (Taber abrasion)	ASTM C501	Average Abrasive Wear Index	-	240
Thermal shock resistance	ASTM C484	Defects	-	No defects
Bond strength	ASTM C482	Average bond strength	psi	357
Resistance to chemical substances	ASTM C650	Common Household and cleaning chemicals Acetic acid, 3% (v/v)		
		Acetic acid, 3% (v/v)	-	Not affected
		acetic acid, 10% (v/v)	-	Not affected
		Ammonium chloride, 100 g/L	-	Not affected
		Citric acid solution, 30 g/L	-	Not affected
		Citric acid solution, 100 g/L	-	Not affected
		Lactic acid, 5% (v/v)	-	Not affected
		Phosphoric acid, 3% (v/v)	-	Not affected
		Phosphoric acid, 10% (v/v)	-	Not affected
		Sulfamic acid, 30 g/L	-	Not affected
		Sulfamic acid, 100 g/L	-	Not affected
		Swimming pool chemicals		
		Sodium hypochlorite solution, 20 mg/L	-	Not affected
		Acids and bases		
		Hydrochloric acid solution, 3% (v/v)	-	Not affected
		Hydrochloric acid solution, 18% (v/v)	-	Not affected
Potassium hydroxide, 30 g/L	-	Not affected		
Potassium hydroxide, 100 g/L	-	Not affected		
Absorption and bulk gravity	ASTM C97	Average weight percent absorption	%	0.02
		Average density	lb/ft <sup>3</sup>	157.6
Modulus of rupture	ASTM C99	Average modulus of rupture dry conditions	psi	7369
		Average modulus of rupture wet conditions	psi	7480
Flexural strength	ASTM C880	Average flexural strength dry conditions	psi	5858
		Average flexural strength wet conditions	psi	5119
Compressive strength	ASTM C170	Average compressive strength dry conditions	psi	44882
		Average compressive strength wet conditions	psi	40165
Abrasion resistance	ASTM C1353	Average index of abrasion	-	265.8