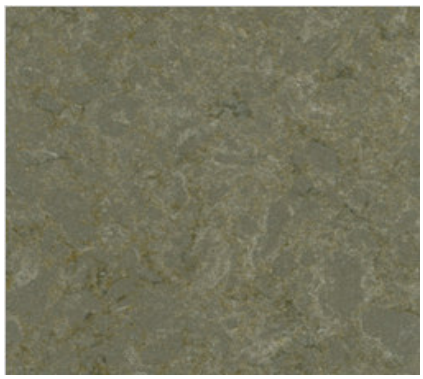
santamargherita
THE ORIGINAL ITALIAN SURFACE ®

# TECHNICAL DATA



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|---|---|
| Product: | **CONCERTO SOPRANO** |
| Brand name: | **SM QUARTZ®** |
| Composition: | **10 - 13 % Resin**<br>**87 - 90 % Selected minerals** |
| Surface finish: | **Polished, Silk** |
| Slabs size (cm): | **320x155, 330x165** |
| Slabs thickness* (cm): | **2,0 - 3,0** |

* Other sizes and thicknesses available on request

| Characteristics | Standard | Value | Notes |
|---|---|---|---|
| Apparent density | EN 14617-1 | 2250 - 2450 Kg/m$^3$ | |
| Water absorption | EN 14617-1 | ≤ 0,10 % | |
| Flexural strength | EN 14617-2 | 55 - 80 Mpa | |
| Abrasion resistance | EN 14617-4 | 29 - 33 mm | |
| Frost resistance | EN 14617-5 | $KM_{f25}$ 0,9 - 1,2 | |
| Thermal shock resistance | EN 14617-6 | Δm% ≤ 0,07 % | Test temperature: 70°C |
| | | $\Delta R_{f,20}$ ≤ 20 % | |
| Impact resistance | EN 14617-9 | 2,0 - 4,0 J | For thickness 12 mm |
| | | ≥ 5,0 J | For thickness 20 mm, 30 mm |
| Chemical resistance | EN 14617-10 | C4 | |
| Linear thermal expansion coefficient | EN 14617-11 | 28 - 40 x $10^{-6}$ °C$^{-1}$ | |
| Dimensional stability | EN 14617-12 | Class A (<0,3 mm) | Referred to tiles 30x30x1,2 cm |
| Electrical resistivity | EN 14617-13 | $\rho_s$ ≥ $10^{10}$ Ω | Referred to surface |
| | | $\rho_v$ ≥ $10^8$ Ω m | Referred to volume |
| Compression resistance | EN 14617-15 | 150 - 250 MPa | |
| Mohs hardness | EN 101 | up to 7 Mohs | |
| Thermal conductivity | EN 12524 | 1,3 W/(m K) | From tabulated values |
| Reaction to fire | ASTM E84 | Class A | US standard |
| Reaction to fire | EN 13501-1 | C-s3,d0 | Walls |
| Reaction to fire | EN 13501-1 | $B_{fl}$-s1 | Flooring |
| Slip resistance | EN 14231 | ≥ 35 (Dry) | |
| | | ≥ 3 (Wet) | |
| Slip resistance | DIN 51130 | R9 | For Honed H9 |



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