

TECHNICAL DATA SHEET | U.H.P.C

U.H.P.C is a composite material comprising of, cement, fine aggregates, , acrylic polymers and admixtures/additives.

Mechanical Properties UHPC at 28 days.

Natural stones. Real and apparent density & total and open porosity (EN 1936:2006)	kg/m ³ 2222,4
Natural stone test methods. Water absorption at atmospheric pressure (EN 13755:2008)	2,30 %
Natural stones - Determination of uniaxial compressive strength (EN 1926:2006)	114,80 N/mm ²
Natural stone test methods: Flexural strength under concentrated load (EN 12372:2007)	15,00 N/mm ²
Natural stone test methods. Abrasion resistance (EN 14157:2017 Method B)	2347,7 mm ³
Slip resistance (EN 14231:2003)	38,1 SRV @ Wet conditions 58,8 SRV @ Dry conditions
Determination of water absorption coefficient by capillarity (EN 1925:2001)	3,4 g/m ²
Natural stone test methods: Determination of the breaking load at dowel hole (EN 13364:2002)	2426,7 N
Determination of Impact Resistance (EN 14617-9:2005)	625132,5 j
Mohs hardness scale	6 - 7 (Orthoclase – Quartz)

Quality Control

The testing regimes vary from daily 'calibration' checks to ensure that the constituent components of the manufacturing process are being correctly batched, to weekly tests to monitor the strength and flexural properties of our UHPC.