

Concrete Mix

Very Rapid Hardening Concrete

SUMMARY OF PROPERTIES

All tests were carried out at 21°C until the age of the test. Tests were carried out at a water addition rate of 3.56L per 27.2kg.

Test Method	Standard	Typical Result(s)			
		1 hour	3 hours	7 days	28 days
Compressive Strength	ASTM C109 Mod	19.0 MPa	25.0 MPa	34.5 MPa	41.4 MPa
		Flexural Strength (Modulus of Rupture)		7 days	28 days
Tensile Strength	ASTM C496 Splitting Tensile	4.5 MPa		5.2 MPa	
		6.0 MPa		6.5 MPa	
Modulus of Elasticity	ASTM C469 Static Modulus of Elasticity	3.18 x 10 ⁴ MPa		3.07 x 10 ⁴ MPa	
		In Air at 28 days		In Water at 28 days	
Dimensional Change	ASTM C157	-0.020%		0.010%	
		Coefficient of Thermal Expansion			
Fresh Wet Density	ASTM C531	4.11 x 10 ⁻⁶ /°C			
		2193 kg/m ³			
Bond Strength	ASTM C882 Mod By Slant Shear	11.0 MPa		20.0 MPa	
		1 day		28 days	
Setting Time	ASTM C191	Initial: 15 minutes Final: 1 hour			
Colour		Light Grey (when dry)			
Yield @21°C		0.014m ³ per 27.2 kg bag			
Application Thickness		50 – 600 mm			
Packaging	27.2 kg bag	50 bags per pallet			

Notes: All above test results are independent third party results. Results for Compressive strength based on 70mm cube samples. The test results listed above are derived from laboratory testing. Results will vary if standard sample sizes or test conditions vary. Refer to Technical Data Sheets for application and installation instructions.



CTS Rapid Set Cement

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