

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.

Notes: All test results are independent third party results. Results for Compressive strength based on 70mm cube samples. The test results listed 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.

COLOUR

Light Grey (when dry)

YIELD @ 21 °C

0.014m³ per 27.2 kg bag

APPLICATION THICKNESS

50 – 600 mm

PACKAGING

27.2kg Bags
50 Bags per pallet

SETTING TIME

ASTM C191
Initial: 15 Minutes
Final: 1 Hour

Compressive Strength

ASTM C109 Mod

Typical Result

1 hour	19.0MPa
3 hours	25.0MPa
7 Days	34.5MPa
28 Days	41.4MPa

Flexural Strength (Modulus of Rupture)

ASTM C78

Typical Result

7 Days	4.5MPa
28 Days	5.2MPa

Tensile Strength

ASTM C496 - Splitting Tensile

Typical Result

7 Days	6.0MPa
28 Days	6.5MPa

Modulus of Elasticity

ASTM C469 - Static Modulus of Elasticity

Typical Result

7 Days	3.18 x 10 ⁴ MPa
28 Days	3.07 x 10 ⁴ MPa

Dimensional Change

ASTM C157

Typical Result

In Air at 28 days	-0.020%
In Water at 28 days	0.010%

Coefficient of Thermal Expansion

ASTM C531

4.11 x 10⁻⁶ /°C

Fresh Wet Density

ASTM C138

2193 kg/m³

Bond Strength

ASTM C882 Mod - By Slant Shear

Typical Result

1 day	11.0MPa
28 days	20.0MPa