

HT33 has been successfully developed in a number of product applications

Water to HT33 cement ratio VS relative density for HT33 grout

WATER: HT33	SPECIFIC GRAVITY	kg HT33/m ³ yield
0.50	1.68	1120
0.48	1.70	1150
0.43	1.73	1210
0.42	1.76	1240
0.35	1.80	1330
0.30	1.85	1420

Strength developed for HT33 grout at laboratory temperature at 1.80 specific gravity

1 DAY	2 DAY	7 DAY	28 DAY	35 DAY
Flexural Strength MPa				
1.9	2.5	4.0	4.4	4.6
Unconfined Compressive Strength MPa				
7.6	11.5	17.9	34	37.7

Strength development (MPa) for an HT33 based pumpable concrete

SPECIFIC GRAVITY	24 HOURS	4 DAY	11 DAY	28 DAY	56 DAY
2.05	8	11.4	21.8	33.6	41.9
2.14	8	10	20	37.9	51.7

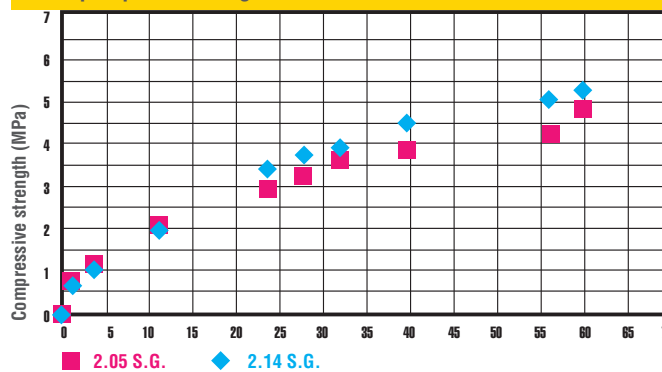
HT33 based fibre reinforced shotcrete results, based on the French rail test.

Shotcrete panels of 600 x 600 mm – 10 kilograms/m³ fibre

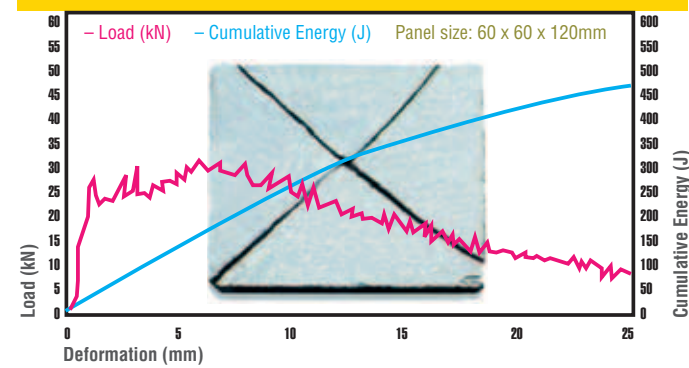
TEST TIME	LOAD (KN)	ENERGY ABSORPTION (J)	UCS (MPa)	CORE (MPa)
7 Day	25	405	30.8	35
14 Day	35	625	32.6	
28 Day	94	1 430	57	60

UCS – Unconfined compressive strengths taken cubes
CORE – Compressive strengths on cores taken from the shotcrete panels

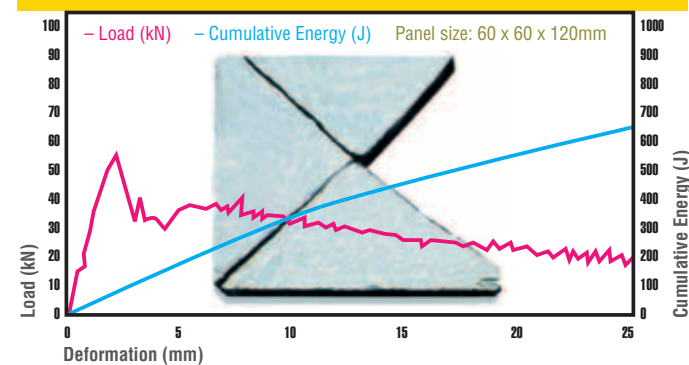
HT33 pumpcrete strength



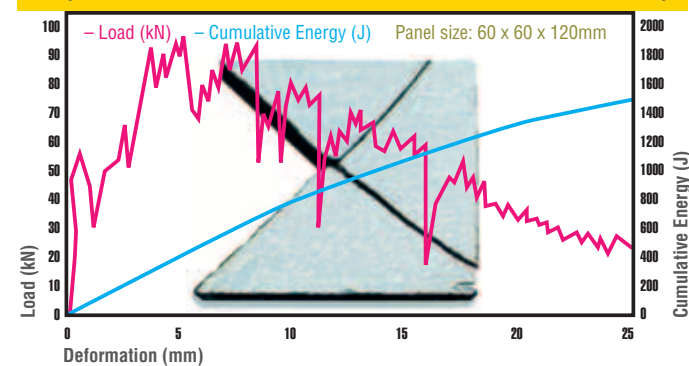
Polyfibre Wet Shotcrete Slabs. Energy absorption French Rail test. 7 Day



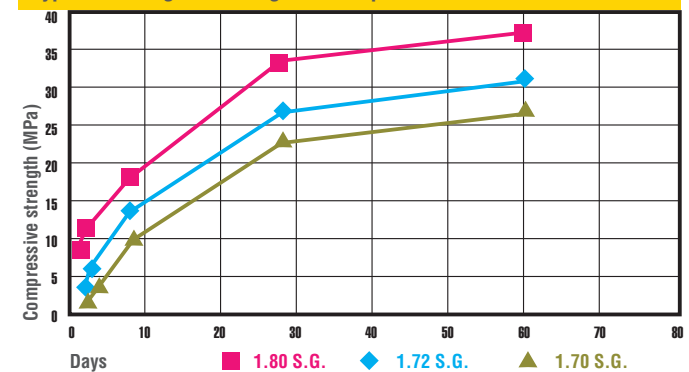
Polyfibre Wet Shotcrete Slabs. Energy absorption French Rail test. 14 Day



Polyfibre Wet Shotcrete Slabs. Energy absorption French Rail test. 28 Day



Typical HT33 grout strength development



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TECHNICRETE HT 33

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