

# GRC/GFRC Technical Information

## TYPICAL FORMULATION OF GRC

	<b>Spray</b>	<b>Premix</b>
<b>Cement</b>	50 kg	50 kg
<b>Fine aggregate</b>	50 kg	50 kg
<b>Glass fibre</b>	4.5-5%	2-3.5%
<b>Plasticiser</b>	0.5 kg	0.5 kg
<b>Polymer</b>	5 kg	5 kg
<b>Water</b>	13.5 litres	14.5 litres

## TYPICAL STRENGTH OF GRC 28 DAYS AFTER MANUFACTURE

	<b>Spray</b>	<b>Premix</b>
<b>Ultimate strength (MOR) MPa</b>	20-30	10-14
<b>Elastic limit (LO R) MPa</b>	7-11	5-8
<b>Interlaminar strength MPa</b>	3-5	NA
<b>In-planar strength MPa</b>	8-11	4-7
<b>Compressive strength MPa</b>	50-80	40-60
<b>Impact strength Kj/m<sup>2</sup></b>	10-25	10-15
<b>Elastic modulus GPa</b>	10-20	10-10
<b>Strain to failure %</b>	0.6-1.2	0.1-0.2
<b>Dry density t/m<sup>3</sup></b>	1.9-2.1	1.8-2.0

