

8.2.3 Accessories

- A. Sealant shall be a one-part silicone rubber.
- B. Color as approved by the Engineer.

8.2.4 Mix Design

- A. GRC Mix: The mix should be of sufficient strength to accommodate panel configuration, size and weight and must achieve the following requirements, unless otherwise approved by the Engineer.

Table 8-1: Guideline for the design mix:

		Grade 10	Grade 10p
a.	Aggregate Cement Ratio	0.5 – 1.5	0.5 – 1.5
b.	Water Cement Ratio	0.35 – 0.40	0.35 – 0.40
c.	Glass Fiber Content (by weight)	2.0 – 3.5%	2.0 – 3.5%
d.	Polymer Content (by weight of cement)	Nil	5.0 – 7.0%

		Grade 18	Grade 18p
a.	Aggregate Cement Ratio	0.5 – 1.0	0.5 – 1.0
b.	Water Cement Ratio	0.325 – 0.375	0.325 – 0.375
c.	Glass Fiber Content (by weight)	4.0 – 5.0%	4.0 – 5.0%
d.	Polymer Content (by weight of cement)	Nil	5.0 – 7.0%

Note: (p) is the Polymer content

Table 8-2: Mechanical properties of the mix at 28 days:

		Grade 10	Grade 18
a.	Characteristic LOP	6 N/mm ²	7 N/mm ²
b.	Characteristic MOR	10 N/mm ²	18 N/mm ²
c.	Top/Bottom Ratio	0.8 – 1.25	0.8 – 1.25
d.	Minimum dry bulk density	1800 kg/m ³	1800 kg/m ³
e.	Minimum wet bulk density	2000 kg/m ³	2000 kg/m ³

Note: (LOP) is Limit of Proportionality

(MOR) is Modulus of Rupture

8.3 Part 3- Execution

8.3.1 Batching and Mixing GRC

- A. Batching and mixing GRC by direct spray