

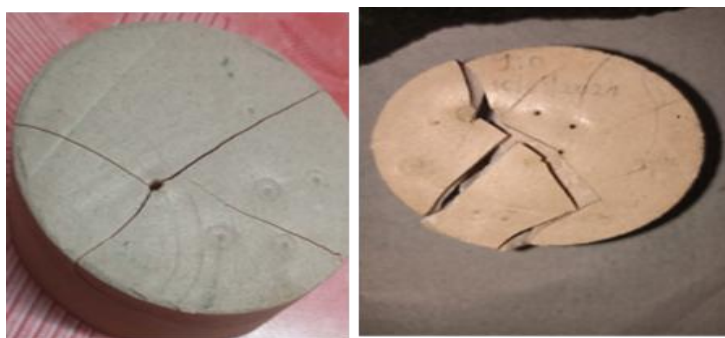
SUPPLEMENTARY MATERIAL TO
**Impact of silica gel G on mechanical and microstructural
properties of magnesium oxychloride**

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(a)



(b)

Fig. S-1. Cracking in setting time blocks (a), and in compressive strength blocks (b).

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Fig. S-2. Compressive and setting time blocks without cracking.



Fig. S-3. Compressive strength testing of MOC block by UTM machine.

Table S-I: Compressive strength sample preparation.

Sample no.	Silica Gel G (SG)		MgO (g)	Dolomite (g)	Gauging solution (mL)
	(%)	(g)			
M0	0%	0	540	0	209.3
M1	0%	0	270	270	169.5
SG1	5%	13.50	270	270	207.50
SG2	10%	27.00	270	270	220.00
SG3	15%	40.50	270	270	239.90
SG4	20%	54.00	270	270	248.10

Table S-II: Setting time sample preparation.

Sample no.	Silica Gel G (SG)		MgO (g)	Dolomite (g)	Gauging solution (mL)
	(%)	(g)			
M0	0%	0	200	0	78.9
M1	0%	0	100	100	72.2
SG1	5%	5.00	100	100	76.00
SG2	10%	10.00	100	100	79.60
SG3	15%	15.00	100	100	84.20
SG4	20%	20.00	100	100	100.60

Table S-III: Water resistance of M0, M1, and different types of MOC-SG samples.

Composition	Different types of MOC blocks immersed in boiling water for					
	0-5 hours	5-10 hours	10-15 hours	15-20 hours	20-25 hours	25-30 hours
M0	During curing M0 was cracked					
M1	N	N	N	N	N	N
SG -1	N	N	N	N	N	N
SG- 2	N	N	N	N	N	N
SG- 3	N	N	N	N	N	N
SG- 4	N	N	N	N	N	N

N = Not affected