

Supplementary Information

1. The original data of uniaxial compression test

In each group of experiments shown in Table 3, we prepared 8 samples. Table S1 records the original data of uniaxial compression specimens. Fig. S1 is the stress-strain curve of two samples in some group.

Table S1. The original data of uniaxial compression test.

Mix No.	Compressive Strength of 7 Days					Compressive Strength of 28 Days				
	SM -A	SM-B	SM-C	Average Value	Standard Error	SM-A	SM-B	SM-C	Average Value	Standard Error
1-A1B1C1D1	56.85	57.00	56.75	56.875	0.07	57.00	53.25	61.50	57.250	1.95
2-A1B2C2D4	42.25	36.00	44.00	40.750	1.98	54.50	59.00	50.75	54.750	1.99
3-A1B3C3D2	48.25	43.25	43.75	45.083	1.30	60.18	61.55	59.40	60.375	0.51
4-A1B4C4D3	47.75	52.00	55.50	51.750	1.83	64.00	70.50	73.00	69.167	2.19
5-A2B1C2D3	48.75	44.00	45.25	46.000	1.16	60.25	57.75	59.50	59.167	0.60
6-A2B2C1D2	64.25	69.25	74.50	69.333	2.42	78.00	75.00	66.75	73.250	2.75
7-A2B3C4D4	60.25	57.25	54.25	57.250	1.73	67.50	72.25	62.75	67.500	2.17
8-A2B4C3D1	56.30	69.75	62.75	62.750	3.18	68.50	65.00	68.00	67.167	0.89
9-A3B1C3D4	55.75	50.25	62.00	56.333	2.77	68.50	73.75	78.00	73.417	2.24
10-A3B2C4D1	57.75	67.50	56.25	57.000	2.88	68.58	64.3	73.75	68.875	2.24
11-A3B3C1D3	57.25	53.50	52.25	54.333	1.23	58.50	63.50	58.75	60.250	1.34
12-A3B4C2D2	58.75	56.75	59.75	58.250	0.78	67.38	67.25	67.50	67.375	0.07
13-A4B1C4D2	59.75	49.00	57.50	55.417	2.67	55.00	54.50	62.00	57.167	1.86
14-A4B2C3D3	53.00	64.25	61.75	59.667	2.78	77.00	67.75	71.50	72.083	2.19
15-A4B3C2D1	52.00	62.50	61.25	61.875	2.70	65.75	63.75	58.75	62.750	1.73
16-A4B4C1D4	53.50	47.25	47.25	49.333	1.70	66.00	58.00	60.25	61.417	1.86

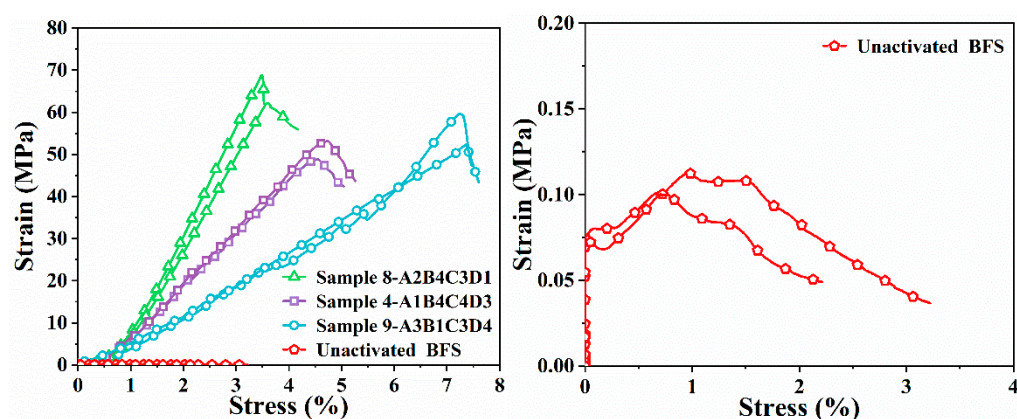


Figure S1. The stress-strain curve of two samples in some group.