



**SIGNUM**

Ref. PSB1-TDS  
Rev. 1.0, 1 April 2021

<b>TECHNICAL DATA SHEET</b>		
<b>SIGNUM FIRE STOP COMPOUND/ MORTAR FIRE BARRIER</b>		
<b>SR. NO.</b>	<b>CHARACTERISTICS</b>	<b>TECHNICAL PARTICULARS</b>
1	Trade Name/ Product Code	PSB 1
2	Type	Mortar Based
3	Testing Standards	IS 12458, BS 470 (Part 20), ASTM E814, UL 1479
4	Testing Agency	CBRI, CPRI, NPCIL, NTPC
5	Colour	Gray
6	Visual Characteristics	Fine powder
7	Dry Bulk Density	Approx. 900-1000 Kgs /m <sup>3</sup>
8	Cured Density	> 1000 Kgs /m <sup>3</sup>
9	Toxicity	Non-Toxic, Asbestos Free
10	Combustibility	Non-Combustible
11	Compressive Strength	> 9 N/mm <sup>2</sup>
12	pH Value	≥ 7
13	Specific Gravity	1.25 to 1.35
14	Fire Resistance	60, 120, 180 & 240 minutes
15	Compound	Single component, pre-mix
16	Oil Resistance	Excellent
17	Thermal Conductivity	Poor
18	Resistance to water	Excellent
19	Resistance to ageing	Excellent
20	Recommended Thickness	a) 75 mm thickness for 60 min Fire Rating b) 125 mm thickness for 120 min Fire Rating c) 175 mm thickness for 180 min Fire Rating d) 270 mm thickness for 240 min Fire Rating
21	Coverage	a) 90 Kg/m <sup>2</sup> * for 60 min Fire Rating b) 120 Kg/m <sup>2</sup> * for 120 min Fire Rating c) 210 Kg/m <sup>2</sup> * for 180 min Fire Rating d) 290 Kg/m <sup>2</sup> * for 240 min Fire Rating
22	Drying/Curing Time	To touch within 6 hours, hard dry 3-4 days
23	Packaging	30 Kg bags
24	Mode of Application	Trowel
25	Shelf life	24 months in unopened packaging, stored in cool, dry place
26	Storage Temperature	4 °C to 50 °C
27	Life Expectancy	More Than 40 years