

**SIGNUM**Ref. RS90DF-TDS
Rev. 2.0, 1 Feb 2026

TECHNICAL DATA SHEET		
SIGNUM FIRE RETARDANT CABLE COATING COMPOUND		
SR. NO.	CHARACTERISTICS	TECHNICAL PARTICULARS
1	Trade Name/Product Code	RS90DF
2	Type	Water Based
3	Testing Standards	IEEE-383, IEC-60331, IEC-60332, IS 10810 (Part 53), IS 10810 (Part 50), ASTM D 2863, IEC-60754-1
4	Testing Agency	CBRI, CPRI, NPCIL
5	Colour	Grey
6	Visual Characteristics	
6.1	Wet Form	Thick Paste Like Form
6.2	Dry Form	Light Textured Surface Finish
7	Viscosity	Highly viscous
8	pH Value	≥ 7
9	Specific Gravity	1.25 to 1.45
10	Thermal conductivity	Poor
11	Flash Point	Not Applicable
12	Solid Content	High, $\geq 60\%$ by weight
13	Expansion Rate	More than 5 times
14	Toxicity	Non-Toxic, asbestos free
15	Limiting Oxygen Index	$> 50\%$ as per ASTM D 2863
16	Oil Resistance	Excellent
17	Effect on Ampacity	$< 2\%$
18	Resistance to water	Excellent
19	Resistance to Weak Acids and Mild Alkalis	Excellent
20	Resistance to Ageing	Excellent
21	Resistance to Rodent Gnawing	Non Palatable by microtine rodents (rats, mice etc.) as per lab tests conducted
22	Flexibility	No cracking/ peeling of coating at bending radius of 12 X OD for armored cables as per IS 10810 Part 50, IS 1255-83
24	Recommended Thickness	1.5 mm average dry film thickness or as per requirement
25	Coverage	3.2 to 3.5 kg/m ² (at recommended thickness)
26	Drying Time	To touch 2-3 hours, hard dry 24-72 hours
27	Packaging	1, 5, 20 Kg Pail (Bucket)
28	Mode of Application	By Brush/ By Spray
29	Shelf life	12 months in original unopened containers, stored in cool dry place
30	Storage Temperature	4 °C to 50 °C
31	Surface preparation	Thick layers of dirt, oil, grease and other foreign matter should be cleaned prior to application.
32	Primer Coat Required	No
33	Life Expectancy	More Than 40 Years
34	Environment	Greenpro Certified Eco-Friendly by Indian Green Building Council