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Government of India - Ministry of Railways
Research Design & Standards Organisation
LUCKNOW - 226001

Dated: 15.7.2002

No.STS/EIAC/Component

Chief Signal & Telecom Engineer,
Central Rly., Mumbai, CST - 400001
Western Rly., Churchgate, Mumbai - 400020
Eastern Rly., Fairlie Place, Calcutta 700001
South Eastern Rly., Garden Reach, Calcutta - 700043
Northern Rly. Baroda House, New Delhi- 110001
Northeastern Rly., Gorakhpur- 273012
Northeast Frontier Rly., Maligaon, Guwahati - 781011
Southern Rly. Park Town, Chennai - 600003
South Central Rly., Secunderabad - 500371

Sub: Use of INSULTEC Paint on locations using electronic equipments

Ref: i) Member Electrical/Railway Board's inspection note dated 17th March 2000

ii) CSTE/CWestern Railway's directives to their construction units to use INSULTEC Paint

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Western Railway has used INSULTEC Paint supplied by M/s Weathertuff/Chitra Sales & Marketing, 202, Sarthak Complex-II, Swastik Char Rasta, Navrangpura, Ahmedabad-380 009 (Gujrat) with good results. Member Electrical in his inspection note directed RDSO to study the property of INSULTEC paint so that it can be adopted to improve reliability of sophisticated signal & telecom equipments.

RDSO have carried out trial of INSULTEC paint in summer season of 2002. M/s Weathertuff has carried out the work of painting of one location. Work carried out by the firm for the trial involves scrapping & removing of old paint, application of anti corrosive primer, two coats of INSULTEC coatings and one glaze coating (to avoid dust). Paint is whitish in colour. It has been found that INSULTEC paint reduces inside temperature of locations by average 4.4°. Cooling benefits of INSULTEC coating is substantial in warmer condition.

Electronic equipments life and failure rates considerably depend on environmental temperature in which they operate. Cost of treatment of INSULTEC on one full size location box is approximately Rs.1500/-including Labour charges. Life of the INSULTEC Paint is 5 years. INSULTEC Paint is effective in reducing the inside temperature. Its use for painting locations housing electronic equipments is recommended. Work may be carried out on works contract basis, which will include Labour charges and result can be monitored at site immediately. Brief Specification is enclosed.

DA:As above

(S.K.Khare)
for Director General/Signal

✓ Copy to : M/s Weathertuff/Chitra Sales & Marketing, 202, Sarthak Complex-II, Swastik Char Rasta, Navrangpura, Ahmedabad-380 009 (Gujrat)

DA:Nij

(S.K.Khare) 15/7/2002
for Director General/Signal

Weatheruff/Chitra Insultec Pvt. Ltd.

Specification

Sr.No.	Parameter	Specification
1	Viscosity (CPS)	2200-2600
2	Specific Gravity	1.26-1.28
3	Solid Content (110 °C-24 hrs.)	60±2%
4	Shade	Off White
5	Hardness	Scrub Resistance
6	Elasticity (Dry Film)	1.2- 1.6 times
7	Settling Test (30 °C-24 hrs.)	No settling
8	Finish (Dry Film)	Smooth
9	Gloss (Dry Film)	Sheen
10	Solar heat reflectivity comparison between uncoated & coated Galv. Panel at ambient temperature more than 32 °C	Temperature Difference (4 to 12 °C)

PKR
15/7-2002