



Thermilate Europe Ltd

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Technical Report 11/Feb/07/Derin01

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Client Company :

Derin Boya ve Denizcilik San.Tic.Ltd Sti.
Boya ve Vernikciler San. Sitesi No:20 Orhanlı-Tuzla/Istanbul, Turkey

Product Name : Robyn's Exterior Thermal Paint

All information in this document is confidential and must be kept as confidential at all times.

1. Sample : 9.5mm plasterboard coated with of Robyn's exterior Thermal Paint(supplied By Proving Ltd).
Allowed drying and conditioning over 7 days and tested.

2. Method : Hotbox test carried out – using infrared thermometer and with thermocouple.

3. Test Details :

• Specimen Thickness :	0.0128 M
• Dimensions :	0.302 x 0302 M
• Temperature of Air :	25.25 °C
• Temperature coated surfaces :	18.06 °C
• Temperature at cold surface:	13.53 °C
• Density of heat flow	71.14 W/m ²
• Temperature Drop plasterboard/Air surface:	11.72 K
• Temperature Drop across air surface layer :	7.19 K
• Temperature Drop Across Plasterboard :	4.53 K
• Thermal resistance of Plasterboard and air layer :	0.1635 m ² K/w
• Thermal resistance of Air surface layer :	0.1005 m ² K/w
• Thermal resistance of Plasterboard and coating :	0.063 m ² K/w
• Duration of the test	84 Hours
• Ambient temperature in building	23 °C

5. Temperature Sensors : Temperatures measured using thermocouple type probes. – also utilized Infrared fitted via space into unit.

6. Methods and temperature of conditioning : The 2 samples were prepared and allowed to be conditioned over the 7 days.

7. Errors in measured property : Errors are allowed up to 3.0% and the test was carried out 2 times.

8. Thermal Energy Saving Result: The Increase in thermal resistance of 9,5 mm nominal thickness plasterboard coated with Robyn's exterior paint sample over blank coating with no ceramic is 28.2%

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