



Thermilate Europe Ltd  
7 Northumberland Street, Huddersfield, HD1 1RL, UK

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## Technical Report 11/Feb/07/IDerin03

Date 11 Feb 2007

### 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 Thermal Primer

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 Thermal Primer in three coats wet on wet method.(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 : 0.0129 M
- Dimensions : 0.304 x 0304 M
  
- Temperature of Air : 24.51 °C
- Temperature coated surfaces : 17.83 °C
- Temperature at cold surface : 14.00 °C
  
- Density of heat flow : 71.1 W/m<sup>2</sup>
  
- Temperature Drop plasterboard/Air surface: 10.31 K
- Temperature Drop across air surface layer : 6.68 K
- Tempertaure Drope Across Plasterboard : 3.63 K



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- Thermal resistance of Plasterboard and air layer : 0.145 m<sup>2</sup> K/w
- Thermal resistance of Air surface layer : 0.094 m<sup>2</sup> K/w
- Thermal resistance of Plasterboard and coating : 0.051 m<sup>2</sup> K/w
  
- Duration of the test 101 Hours
- Ambient temperature in building 22 °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 Thermal Primer sample over blank coating with no ceramic is 18.7%

Operator :: AKA Matt Wright

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