



Measurement Report

Conducted by the

National and Kapodistrian University of Athens Physics Department

According to the contract, signed between the National and Kapodistrian University of Athens and NEOTEX AEBEE, on 25/2/2016, measurements for the assessment of the:

- solar reflectance (SR) at the UV-VIS-NIR spectrum (300 to 2500nm),
- infrared emittance at the wide IR spectrum

have been carried out by the laboratory of the Group Building Environmental Studies, of the Physics Department, of the National and Kapodistrian University of Athens (NKUA).

The following specimens have been submitted for testing:

Specimen 1: Coating sample of white color and dimensions: 7cm (w) x 7cm applied on aluminum substrate. **Product Code: NEOPROOF POLYUREA**

The laboratory of the Group Building Environmental Studies, of the Physics Department of NKUA hereby reports that on the 25/2/2016 the above mentioned tested samples have been successfully measured to have the values of solar reflectance and infrared emittance that are shown in Table 1.

Product code	SR	ε (±0.02)	SRI
NEOPROOF POLYUREA	0.87	0.85	109

Table 1. The values of solar reflectance, infrared emittance and solar reflectance index of the sample submitted by NEOTEX AEBEE.

The measurements for the solar reflectance were conducted according to the ASTM Standard E903-96 (ASTM E 903 -Standard Test Method for Solar Absorptance, Reflectance, and Transmission of Materials Using Integrating Spheres) by using a UV/VIS/NIR (Varian, Carry 5000) fitted with a 150mm diameter, integrating sphere (Labsphere, DRA 2500). The reference standard reflectance material used for the measurement was a PTFE plate (Labsphere).

The measurements for the infrared emittance were conducted according to the ASTM Standard E408-71 (ASTM E408-71(1996) - Standard Test Method for Total Normal Emittance of Surfaces Using Inspection-Meter Techniques) by using the Emissometer Model AE (Devices & Services).

Professor:

Mat Santamouris

29/02/2016

Zigned on:

Physics Group Building Engrapmental Studies