EUROPLASTIC
· BUILDING CHEMICALS · SINCE 1991 ·

Update: 08.06.2022 (overwrites the last TDSs)

*Technical data sheet*

**ThermoSave V**

CE

*1504-2*

| No | Characteristics | Unit | ThermoSave V | Standard |
|---|---|---|---|---|
| **1** | Aspect | Visual | Pasty liquid | - |
| **2** | pH | - | 8,5 ±1 | Brookfield, speed 10, rotor 6 |
| **3** | Density, 19˚C | $g/cm^3$ | 0,75 ±0,1 | SR EN ISO 2811-1:2011 |
| **4** | Viscosity | cPs | min. 7.000 | 24h from manufacturing |
| **5** | Basic color | | White | |
| **6** | VOC | $g/l$ | < 5 | |
| **7.1** | Non-volatile matter content, 1h at 105 ° C (CS, dry matter) | % | 55 ± 5 | SR EN ISO 3251:2008 |
| **7.2** | Consumption | 0,5 mm thickness | 0,52 l/sqm | - |
| **9** | Reaction to fire | - | Class A2 | SR EN ISO 1716-2018 + A1 |

*Reaction to fire testing made by Ministry of Internal Affairs, DEPARTMENT FOR EMERGENCY SITUATIONS.*
*Test report No. 45249 from June 6$^{th}$, 2022.*

| No | Characteristics | Unit | Reference | Standard | Performed by |
|---|---|---|---|---|---|
| **Characteristics of the product applied*** | | | | | |
| **8** | Tensile grip<br>- concrete support<br>- metal support | MPa | > 0,50 | SR EN ISO 4624:2003 | INCD URBAN-INCERC |
| **9** | Permeability to liquid water, concrete support | $kg/m^2 \times h^{0,5}$ | <0,1<br>$W_3$<br>Low permeability | SR EN ISO 1062-3:2008 | INCD URBAN-INCERC |
| **10** | Tensile grip, metal support, after 240 hours of exposure at 150° C | MPa | 0,64 | SR EN ISO 4624:2003<br>SR EN ISO 3248-2001 | INCD URBAN-INCERC |
| **11** | Resistance to temperature variations on concrete after 5 cycles* of exposure | Visual | No degradation | SR EN 60068-2-4:2010 | INCD URBAN-INCERC |
| **12** | Tensile adhesion, concrete support, after 5 exposure cycles* | MPa | 1,06 | SR EN ISO 4624:2003 | INCD URBAN-INCERC |
| **13** | Thermal conductivity, at 10˚C | $W/m \times K$ | 0,0016 | SR EN 12667:2002 | **EUROPLASTIC self evaluation** |
| **14** | Contribution to the improvement of the external surface thermal resistance R_se1) due to the reflection of the solar radiation (color: white)<br>[1)] only during sunshine | | | $0,8 m^2 \times K/W$ | |

CE

1504-2

**EUROPEAN HARMONISED STANDARD**

EN 1504-2

| | | | | | |
|---|---|---|---|---|---|
| **15** | **Water vapor permeability Water vapor transmission properties** - breathability | | | | |
| **15.1** | **Water vapor transmission rate (V)** | $g/m^2 \times 24h$ | ≥ 150 | SR EN 7783:2012 | CENTRAL LABORATORY |
| **15. 2** | **Diffusion of water vapor ($s_d$)** | m | ≥ 0,1 | SR EN 1061-1 | CENTRAL LABORATORY |
| **16** | **Durability** | MPa | ≥ 1 | SR EN 4624/2016 | CENTRAL LABORATORY |
| **17** | **Grip (determination of grip by direct traction)** | MPa | ≥ 1 | SR EN 4624:2016 | CENTRAL LABORATORY |
| **18** | **Liquid water permeability** | $kg/m^2 \times h^{0,5}$ | ≤ 0,1 | SR EN 1063 -3:2008<br>SR EN 1062-1 | CENTRAL LABORATORY |

*the product was applied undiluted, in 2 layers on metal support and 2 layers on concrete support

**the exposure cycle to temperature variations according to SR EN 60068-2-14 consists of 7h at +60 ±2˚C and 17h at -20 ± 2˚C

**Dubai Central Laboratory** – Engineering Materials Laboratory Section, Structural Unit

**TEST REPORT** – determination of solar reflectance index

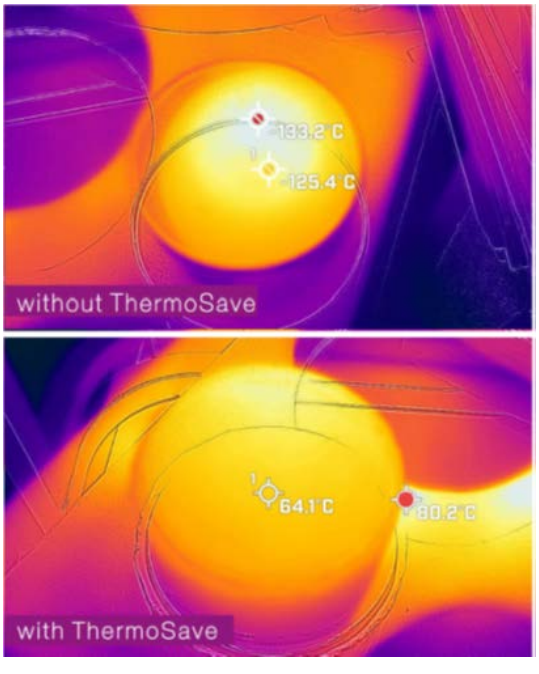
Report no. 2016063100, 19/05/2016

| | |
|---|---|
| Solar reflectance (%) as per ASTM C 1549-09 | 86,3 |
| Emittance (Ɛ) as per ASTM C 1371-04a | 0,95 |
| Solar Reflectance Index (SRI) for low wind (0 to 2 $m/s$) | 108,89 |
| Solar Reflectance Index (SRI) for medium wind (2 to 6 $m/s$) | 108,81 |
| Solar Reflectance Index (SRI) for high wind (6 to 10 $m/s$) | 108,73 |

Test method: ASTM E 1980:01

*AUTHORIZED by Head of Unit Of Government of DUBAI*

EUROPLASTIC S.R.L. ROMÂNIA




**Testing with a professional UV lamp.**
**Temperature was determined with a FliR cam (thermal vision camera)**