LLC «TechnoNICOL — Construction Systems»
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**DECLARATION OF FEATURES**
**No.261-CPR-2017-04-04**

| | | |
|---|---|---|
| **1.** | **Unique identification code of product type** | **UNDERLAY PRO 1000**<br>**TN451273** |
| **2.** | **Intended use/es** | **The material is used for waterproofing aims like the underlayer in the new multi-layer roof coatings or for renewing of the old roofing materials, vapor isolation of the building constructions and hydro – or wind-protection of the heat insulation material. The material is fixed with the help of mechanical fixation**<br>**Special requirements as to product use and storage are stated on package and in accompanying documents.** |
| **3.** | **Manufacturer:** | **Technoflex Factory Ltd.**<br>**390042, Ryazan, Russia**<br>**ul. Prizheleznodorozhnaya,**<br>**tel.: 007 4912 911-292**<br>**fax: 007 4912 911-288**<br>**e-mail: secretary@tflx.tn.ru** |
| **4.** | **Authorized representative** | |
| **5.** | **System or systems for building product consumer properties constancy evaluation and verification** | **2+** |
| **6.a** | **Harmonized standard** | **EN 13707:2004+A2:2009** |
| | **Notified body/ies** | **№ 1023 Institut pro testování a certifikaci, a.s.**<br>**třída Tomáše Bati 299, Louky**<br>**763 02 Zlín**<br>**Česká republika/Czech Republic**<br>**tel/phone: + 420 577601541** |

## 7. Declared features:

| № | Characteristic | Test methods | Unit of measurement | Value or statement | |
|---|---|---|---|---|---|
| | Protective coating of top side | | | Polyester | |
| | Protective coating of underside | | | Polyester | |
| 1. | Length / Width | EN 1848-1 | m/m | ≥ 20±2% /1±3% | MDV |
| 2. | Thickness | EN 1849-1 | mm | - | MDV |
| 3. | Mass per unit area | EN 1849-1 | kg/m² | 1,0 (+0,03) | MDV |
| 4. | Reaction for fire | EN 13501-1 | - | Class F | |
| 5. | Visible defects | EN 1850-1 | - | No visible defects | |
| 6. | Flexibility at low temperature | EN 1109 | ° C | ≤ -15 | MLV |
| 7. | Flow resistance at elevated temperature | EN 1110 | ° C | ≥+ 100 | MLV |
| 8. | Adhesion of granules | EN 12039 | % | NPD | MDV |
| 9. | Tensile properties: maximum tensile force<br>- longitudinal direction<br>- transverse direction | EN 12311-1 | N/50mm | 450 ± 100<br>NPD | MLV |
| 10. | Tensile properties: elongation<br>-longitudinal direction<br>- transverse direction | EN 12311-1 | % | 30 ± 15<br>NPD | MLV |
| 11. | Dimensional stability | EN 1107-1 | % | NPD | MLV |
| 12. | Resistance to tearing (nail shank):<br>- longitudinal direction<br>- transverse direction | EN 12310-1 | N | 150 ± 80<br>150 ± 80 | MDV |
| 13. | Watertightness | EN 1928<br>Method A | - | Water doesn't penetrate | Pass |
| 14. | Water vapor transmission properties | EN 1931 | - | μ = 18000 ± 3500 | |
| 15. | Resistance to root penetration | EN 13948 | - | NPD | MLV |
| 16. | Resistance to static loading | EN 12730<br>Method B | kg | NPD | MLV |
| 17. | Resistance to impact | EN 12691 | Ømm<br>h=300mm | NPD | MLV |
| 18. | Bond strength:<br>- at tearing off<br>- at cutting off | EN 12317-1 | - | NPD | MDV |
| 20. | Determination of straightness | EN 1848-1 | mm | NPD | MLV |

| | | | | | |
|---|---|---|---|---|---|
| 21. | Dangerous substances | EN 13707+A2:2009 | ------- | Without harmful substances (Does not contain dangerous substances) | |

**The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.**

**Signed for and on behalf of the Manufacturer:**
**Deputy Director of Quality A.V. Yastrebova**

**(Signature and name)**

**City of Ryazan 4.04.2017**
**(Place and date of issue )**