

DECLARATION OF PERFORMANCE

No. EU 305/2011

**Nanten HM Epoksi
Nanten M Primer
Nanten SL Epoksinnoite
Nanten SL Bio Epoksinnoite
Nanten SL AR Epoksinnoite
Nanten SL CSM Epoksinnoite**

No. DOP: SL 2015 (3)

1. Unique identification code of the product-type:

EN 1504-2; ZA.1d and ZA.1f

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

Batch number, see packaging of the product

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical inspection, as foreseen by the manufacturer:

**EN 1504-2
Part 2: Surface protection systems for concrete
Physical resistance (5.1)
Chemical resistance (6.1)**

4. Name, registered trade name of registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

**Nanten Oy
Teollisuustie 6
FI-04300 Tuusula
FINLAND**

5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):

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6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V.

System 2+ (for uses in buildings and civil engineering works)

7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

EN 1504-2, System 2+

The notified body No: 0809 VTT Expert Service Ltd has performed the initial inspection of the manufacturing plant and of factory production control and continuous surveillance, assessment and evaluation of factory production control under system 2+ and issued: Certificate of conformity of the factory production control No. 0809-CPR-1037

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

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9. Declared performance:

EN 1504-2

Epoxy system, consisting of components:

Primers Nanten HM Epoksi and Nanten M Primer
Masses Nanten SL Epoksinnoite, Nanten SL Bio Epoksinnoite, Nanten SL AR Epoksinnoite
Nanten SL CSM BIO Epoksinnoite

| Essential characteristics | Performance | Harmonized Technical Specification |
|--|---|---|
| Abrasion resistance EN ISO 5470-1 | < 3 000 mg | EN 1504-2:2004 |
| Capillary absorption and permeability to water EN 1062-2 | $W < 0,1 \text{ kg/m}^2 \times \text{h}^{0,5}$ | EN 1504-2:2004 |
| Impact resistance EN ISO 6272-1 | Class III (best in class) $\geq 20 \text{ Nm}$ | EN 1504-2:2004 |
| Adhesion strength by pull-off test: EN 1542 | $\geq 1,5 \text{ N/mm}^2$ | EN 1504-2:2004 |
| Fire Classification EN 13501-1 | B _{FL} – s1 | EN 1504-2:2004 |
| High chemical resistance EN 13529 | Class II (28 d without pressure) | EN 1504-2: 2004 |

High chemical stress resistance (EN 13529) requirement: the hardness reduction in the lower 50%.

The product of strong chemical resistance:

- Group 1-4: all hydrocarbons (petrol, aviation gasoline, heating oil and diesel ...) except for benzene
- Group 5: alcohols, glycol ethers and aqueous solutions of up to 48% (methanol, ethanol, isopropanol, ...)
- Group 6.a: all aliphatic halogenated hydrocarbons (methylene chloride ...)
- Group 9: aqueous solutions of organic acids of up to 20% (acetic acid, citric acid ...)
- Group 10: inorganic acids, aqueous solutions up to 20% (sulfuric acid, hydrochloric acid ...)
- Group 11: inorganic bases and their salts in aqueous solutions up to 20% (sodium hydroxide, potassium hydroxide ...)
- Group 12: inorganic salt solutions up to 20% (sodium chloride, potassium chloride, ammonium chloride ...)

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration on performance is issued under the sole responsibility of the manufacturer in point 4.

Signed for and on behalf of manufacturer by:

Tuusula 3.3.2015

Kari Holopainen, Head of Research and Development