

## DECLARATION OF PERFORMANCE

N. CPR-ES2/0011

|   |  |
|---|--|
| <b>1 Unique identification code of the product-type</b>   | <b>TECNOCOAT P-2049 LV</b>   |
| <b>2 Intended uses</b>  | Two-component pure polyurea coating for intended use in concrete surface protection by protection against ingress; moisture control and increasing resistivity; physical resistance; chemical resistance methods |
| <b>3 Manufacturer</b>   | TECNOPOL SISTEMAS, S.L.U.<br>Finlàndia, 33 08520 Les Franqueses del Vallès – Barcelona-Spain www.tecnopolgroup.com – t. +34 935682111  |
| <b>4 Systems of AVCP</b>  | AVCP-System 2+<br>AVCP- System 3 (for reaction to fire)  |
| <b>5 Harmonized standards</b>   | EN 1504-2:2004   |
| <b>Notified bodies</b>  | LGAI TECHNOLOGICAL CENTER, S. A./Applus, N. 0370<br>CSI S.p.A N. 0497  |
| <b>6 Performances declared</b>  |  |
| <b>Essential characteristics</b>  | <b>Performances</b>  |
| Abrasion resistance:  | Weight loss < 3000 mg  |
| Permeability to CO <sub>2</sub> :   | Sd > 50 m  |
| Water vapor permeability:   | Class I  |
| Capillary absorption and permeability to water:   | < 0,1 kg/m <sup>2</sup> .h <sup>0.5</sup>  |
| Resistance to thermal shock:  | ≥ 1,5 N/mm <sup>2</sup>  |
| Resistance to severe chemical attack:   | Reduction in hardness < 50% (Shore D)  |
| Groups 9,10,11,12:  | Class II   |
| Crack bridging ability  | A5(-10°C); Class > B4,2 (23°C)   |
| Impact resistance:  | Class III  |
| Adhesion strength by pull-off test:   | ≥ 1,5 N/mm <sup>2</sup>  |
| Reaction to fire:   | Class E  |
| Artificial weathering   | No blistering, no cracking, no flaking. (Change of color, loss of gloss, and a little surface chalking)  |
| Dangerous substances:   | NPD  |
| <b>Legend for Resistance to severe chemical attack: groups numbers and related descriptions as per EN 13529</b> |  |
| Group 9:  | Aqueous solutions of organic acids up to 10%   |
| Group 10:   | Inorganic acids up to 20% and salts with acid hydrolysis in an aqueous solution (pH < 6) except for the hydrofluoric acid and oxidizing acids and their salts  |
| Group 11:   | Inorganic bases and their salts with alkaline hydrolysis in aqueous solution (pH > 8) except for ammonium solutions and oxidizing solutions salts (for example hypochlorite)                                     |
| Group 12:   | Solutions of inorganic non-oxidizing salts with pH = 6 - 8   |

The performance of the product identified above is in conformity with the set of declared performances.

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 by **David Pont – Technical Service Manager**

**Les Franqueses del Vallés,**



**23/03/2023**



REACH information: the information referred to Article 31 or, as appropriate, to Article 33 of the REACH Regulation (EC) No 1907/2006 and the following amendments are indicated in the Safety Data Sheet that Tecnopol Sistemas S.L.U. makes available on the website along with this current Declaration of Performance.

DoP in Pdf format is available on the Tecnopol website.

|                          |                             |
|--------------------------|-----------------------------|
| <i>Revision 0 notes:</i> | <i>First issue</i>          |
| <i>Revision 1:</i>       | <i>Updating information</i> |

|  |  |                      |                       |                                   |           |                           |         |   |   |                              |                         |                                       |                                       |                    |          |                        |                                |                    |           |                                     |                         |                   |         |                       |   |                       |     |
|--|--|----------------------|-----------------------|-----------------------------------|-----------|---------------------------|---------|---|---|------------------------------|-------------------------|---------------------------------------|---------------------------------------|--------------------|----------|------------------------|--------------------------------|--------------------|-----------|-------------------------------------|-------------------------|-------------------|---------|-----------------------|---|-----------------------|-----|
| <br>0370, 0497  | <br><b>TECNOPOL SISTEMAS, S.L.U., Finlàndia, 33 08520 Les Franqueses del Vallés – Barcelona-Spain – <a href="http://www.tecnopolgroup.com">www.tecnopolgroup.com</a></b> |                      |                       |                                   |           |                           |         |   |   |                              |                         |                                       |                                       |                    |          |                        |                                |                    |           |                                     |                         |                   |         |                       |   |                       |     |
| <b>21</b><br><b>CPR-ES2/0011</b><br><b>EN 1504-2:2004</b><br><b>TECNOCOAT P-2049 LV</b><br><br>Two-component pure polyurea coating for intended use in concrete surface protection by protection against ingress; moisture control and increasing resistivity; physical resistance; chemical resistance methods  |  |                      |                       |                                   |           |                           |         |   |   |                              |                         |                                       |                                       |                    |          |                        |                                |                    |           |                                     |                         |                   |         |                       |   |                       |     |
| <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Abrasion resistance:</td> <td>Weight loss &lt; 3000 mg</td> </tr> <tr> <td>Permeability to CO<sub>2</sub>:</td> <td>Sd &gt; 50 m</td> </tr> <tr> <td>Water vapor permeability:</td> <td>Class I</td> </tr> <tr> <td>Capillary absorption and permeability to water:</td> <td>&lt; 0,1 kg/m<sup>2</sup>.h<sup>0.5</sup></td> </tr> <tr> <td>Resistance to thermal shock:</td> <td>≥ 1,5 N/mm<sup>2</sup></td> </tr> <tr> <td>Resistance to severe chemical attack:</td> <td>Reduction in hardness &lt; 50% (Shore D)</td> </tr> <tr> <td>Groups 9,10,11,12:</td> <td>Class II</td> </tr> <tr> <td>Crack bridging ability</td> <td>A5(-10°C); Class &gt; B4,2 (23°C)</td> </tr> <tr> <td>Impact resistance:</td> <td>Class III</td> </tr> <tr> <td>Adhesion strength by pull-off test:</td> <td>≥ 1,5 N/mm<sup>2</sup></td> </tr> <tr> <td>Reaction to fire:</td> <td>Class E</td> </tr> <tr> <td>Artificial weathering</td> <td>No blistering, no cracking, no flaking. (Change of color, loss of gloss, and a little surface chalking)</td> </tr> <tr> <td>Dangerous substances:</td> <td>NPD</td> </tr> </table> |  | Abrasion resistance: | Weight loss < 3000 mg | Permeability to CO <sub>2</sub> : | Sd > 50 m | Water vapor permeability: | Class I | Capillary absorption and permeability to water: | < 0,1 kg/m <sup>2</sup> .h <sup>0.5</sup> | Resistance to thermal shock: | ≥ 1,5 N/mm <sup>2</sup> | Resistance to severe chemical attack: | Reduction in hardness < 50% (Shore D) | Groups 9,10,11,12: | Class II | Crack bridging ability | A5(-10°C); Class > B4,2 (23°C) | Impact resistance: | Class III | Adhesion strength by pull-off test: | ≥ 1,5 N/mm <sup>2</sup> | Reaction to fire: | Class E | Artificial weathering | No blistering, no cracking, no flaking. (Change of color, loss of gloss, and a little surface chalking) | Dangerous substances: | NPD |
| Abrasion resistance:   | Weight loss < 3000 mg  |                      |                       |                                   |           |                           |         |   |   |                              |                         |                                       |                                       |                    |          |                        |                                |                    |           |                                     |                         |                   |         |                       |   |                       |     |
| Permeability to CO <sub>2</sub> :  | Sd > 50 m  |                      |                       |                                   |           |                           |         |   |   |                              |                         |                                       |                                       |                    |          |                        |                                |                    |           |                                     |                         |                   |         |                       |   |                       |     |
| Water vapor permeability:  | Class I  |                      |                       |                                   |           |                           |         |   |   |                              |                         |                                       |                                       |                    |          |                        |                                |                    |           |                                     |                         |                   |         |                       |   |                       |     |
| Capillary absorption and permeability to water:  | < 0,1 kg/m <sup>2</sup> .h <sup>0.5</sup>  |                      |                       |                                   |           |                           |         |   |   |                              |                         |                                       |                                       |                    |          |                        |                                |                    |           |                                     |                         |                   |         |                       |   |                       |     |
| Resistance to thermal shock:   | ≥ 1,5 N/mm <sup>2</sup>  |                      |                       |                                   |           |                           |         |   |   |                              |                         |                                       |                                       |                    |          |                        |                                |                    |           |                                     |                         |                   |         |                       |   |                       |     |
| Resistance to severe chemical attack:  | Reduction in hardness < 50% (Shore D)  |                      |                       |                                   |           |                           |         |   |   |                              |                         |                                       |                                       |                    |          |                        |                                |                    |           |                                     |                         |                   |         |                       |   |                       |     |
| Groups 9,10,11,12:   | Class II   |                      |                       |                                   |           |                           |         |   |   |                              |                         |                                       |                                       |                    |          |                        |                                |                    |           |                                     |                         |                   |         |                       |   |                       |     |
| Crack bridging ability   | A5(-10°C); Class > B4,2 (23°C)   |                      |                       |                                   |           |                           |         |   |   |                              |                         |                                       |                                       |                    |          |                        |                                |                    |           |                                     |                         |                   |         |                       |   |                       |     |
| Impact resistance:   | Class III  |                      |                       |                                   |           |                           |         |   |   |                              |                         |                                       |                                       |                    |          |                        |                                |                    |           |                                     |                         |                   |         |                       |   |                       |     |
| Adhesion strength by pull-off test:  | ≥ 1,5 N/mm <sup>2</sup>  |                      |                       |                                   |           |                           |         |   |   |                              |                         |                                       |                                       |                    |          |                        |                                |                    |           |                                     |                         |                   |         |                       |   |                       |     |
| Reaction to fire:  | Class E  |                      |                       |                                   |           |                           |         |   |   |                              |                         |                                       |                                       |                    |          |                        |                                |                    |           |                                     |                         |                   |         |                       |   |                       |     |
| Artificial weathering  | No blistering, no cracking, no flaking. (Change of color, loss of gloss, and a little surface chalking)  |                      |                       |                                   |           |                           |         |   |   |                              |                         |                                       |                                       |                    |          |                        |                                |                    |           |                                     |                         |                   |         |                       |   |                       |     |
| Dangerous substances:  | NPD  |                      |                       |                                   |           |                           |         |   |   |                              |                         |                                       |                                       |                    |          |                        |                                |                    |           |                                     |                         |                   |         |                       |   |                       |     |

**Note:**

TECNOPOL SISTEMAS S.L.U supplies the current annex along with the DoP to make the consultancy of the CE marking easier for international clients. The enclosed CE marking can be slightly different compared to the one printed on the relevant packaging or documentation because of:

- NPD (No Performance Determined) values can be omitted by the CE marking,
- graphic adaptations due to lack of space on the packaging or printing methods used,
- different language (the same packaging can be shared by several countries),
- the product is already in stock when the updating of the CE marking is implemented,
- printing mistakes.