



**Polyurethane construction sealant for  
filling gaps MAPEFLEX PU45 FT**  
**National declaration on performance  
properties**  
**No. B-181**

**NATIONAL DECLARATION ON PERFORMANCE PROPERTIES No. B-181**

1. Name and trade name of the construction product: **Polyurethane construction sealant for filling gaps MAPEFLEX PU45 FT**
2. Marking of the construction product: **Polyurethane construction sealant for filling gaps MAPEFLEX PU45 FT**
3. Intended application or applications: **intended to use in communication construction to fill in and seal horizontal or vertical gaps and expansion joints and joints between concrete, stone or steel elements, including stainless and galvanized steel and also aluminium**
4. Name and address of the producer's registered address and product manufacturing site:  
**MAPEI S.p.A. – Via Cafiero, 22 – 20158 Milan – Italy - [www.mapei.it](http://www.mapei.it)**  
**manufacturing site:**  
**Strada Provinciale 159, 20060 Robbiano do Mediglia, Milan, Italy**
5. Name and address of the registered office of the authorised representative, if applicable:  
**MAPEI Polska Sp. z o.o. – ul. G.Eiffela 14 – 44-109 Gliwice – Poland – [www.mapei.pl](http://www.mapei.pl)**
6. National system for the assessment and verification of the constancy of performance properties:  
**System 3**
7. National technical assessment:
  - 7a. Product Polish Standard: **Not applicable**  
Name of the accredited certification body, accreditation number and national certificate number or the accredited name of the laboratory/laboratories and the accreditation number: **Not applicable**
  - 7b. National technical assessment: **IBDiM-KOT-2019/0285 - 2 issue of 2025**  
Technical assessment unit/National technical assessment unit: **Road and Bridge Research Institute**  
Name of the accredited certification body, the accreditation number and the certificate number:  
**Not applicable**



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8. Declared performance properties:

Essential characteristics of the construction product for the intended application or applications	Declared performance properties	Comments
<b>Elastic recovery at elongation</b> <b>Tensile properties (secant modulus)</b> - at temperature $23 \pm 2^{\circ}\text{C}$ - at temperature $-20 \pm 2^{\circ}\text{C}$ <b>Mechanical properties under constant tension</b> - at temperature $23 \pm 2^{\circ}\text{C}$ - at temperature $-30 \pm 2^{\circ}\text{C}$ <b>Tear resistance</b> <b>Adhesion / cohesion properties at variable temperatures</b> <b>Adhesion / cohesion properties at constant elongation after exposure to</b> - water - 10% NaCl solution <b>Resistance to flow</b> <b>Loss of volume, loss of mass</b> <b>Chemical resistance to water solutions containing ammonium, chloride and sulphate ions, for 28 days:</b> - loss of appearance - loss of mass - loss of diameter <b>Chemical resistance to gasoline and diesel oil for 3 days:</b> - loss of mass - loss of volume	$\geq 90,0 \%$  $> 0,4 \text{ MPa}$ $> 0,6 \text{ MPa}$  No failure No failure No failure  No failure   No failure No failure $\leq 3 \text{ mm}$ $\leq 10 \%$   No changes $\leq 2 \%$ $\leq 2 \%$  $\leq 25 \%$ $\leq 30 \%$	

9. The performance properties of the above described product comply with all of the declared performance properties, referred to in (8). This national declaration of performance properties shall be issued in keeping with the Construction Products Act of 16 April 2004, on the exclusive responsibility of the producer.

Signed on behalf of the producer:

**Lorenzo Martino – Corporate Quality Management**

**Milan, 15/05/2025**

*National declarations on performance properties in Pdf format are available in the Mapei Polska Sp. z o.o. website*



Revision 1 notes:	Change of the reference document
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**B MARKING**

*Annex to NDoPP No. B-181*



	 <b>MAPEI S.p.A. – Via Cafiero, 22 – 20158 Mediolan – Włochy</b>  <a href="http://www.mapei.pl">www.mapei.pl</a>
<p style="text-align: center;"><b>19</b>  <b>NDoPP No.: B-181</b>  <b>IBDiM-KOT-2019/0285 - 2 issue of 2025</b>  <b>Polyurethane construction sealant for filling gaps MAPEFLEX PU45 FT</b>  <i>Polyurethane construction sealant for filling in gaps MAPEFLEX PU45 FT</i></p>	
<p>Elastic recovery at elongation</p> <p>Tensile properties (secant modulus)</p> <ul style="list-style-type: none"> <li>- at temperature <math>23 \pm 20^{\circ}\text{C}</math></li> <li>- at temperature <math>-20 \pm 20^{\circ}\text{C}</math></li> </ul> <p>Mechanical properties under constant tension</p> <ul style="list-style-type: none"> <li>- at temperature <math>23 \pm 20^{\circ}\text{C}</math></li> <li>- at temperature <math>-30 \pm 20^{\circ}\text{C}</math></li> </ul> <p>Tear resistance</p> <p>Adhesion / cohesion properties at variable temperatures</p> <p>Adhesion / cohesion properties at constant elongation after exposure to</p> <ul style="list-style-type: none"> <li>- water</li> <li>- 10% NaCl solution</li> </ul> <p>Resistance to flow</p> <p>Loss of volume, loss of mass</p> <p>Chemical resistance to water solutions containing ammonium, chloride and sulphate ions, for 28 days:</p> <ul style="list-style-type: none"> <li>- loss of appearance</li> <li>- loss of mass</li> <li>- loss of diameter</li> </ul> <p>Chemical resistance to gasoline and diesel oil for 3 days:</p> <ul style="list-style-type: none"> <li>- loss of mass</li> <li>- loss of volume</li> </ul>	<p><math>\geq 90,0 \%</math></p> <p><math>&gt; 0,4 \text{ MPa}</math></p> <p><math>&gt; 0,6 \text{ MPa}</math></p> <p>No failure</p> <p>No failure</p> <p>No failure</p> <p>No failure</p> <p>No failure</p> <p>No failure</p> <p>No failure</p> <p><math>\leq 3 \text{ mm}</math></p> <p><math>\leq 10 \%</math></p> <p>No changes</p> <p><math>\leq 2 \%</math></p> <p><math>\leq 2 \%</math></p> <p><math>\leq 25 \%</math></p> <p><math>\leq 30 \%</math></p>