

## Declaration of performance

In accordance with the Regulation (EU) No. 305/2011 (Annex III)

No. TTK – D – 4511-1 / 4

1. Unique identification code of the product-type:

**Cementol® Hiperplast 481**

2. Intended use or uses of the product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

**EN 934 – 2 / T3.1 and T3.2**

**Chemical admixture for concrete:  
High range water reducing / Super plasticizing Admixture**

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

**TKK Proizvodnja kemičnih izdelkov, d.o.o.**  
Srpenica 1, SI-5224 Srpenica, Slovenia  
Tel.: +386 (0)5 3841 301, Fax: +386 (0)5 3841 390 / 3841 391 e-mail: [info@tkk.si](mailto:info@tkk.si)

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

**System 2+**

5. In case of the declaration of performance concerning a construction covered by a harmonised standard:

**EN 934 – 2:2009 + A1:2012**

**The notified body No. NB 1404: ZAG – Slovenian National Building and Civil Engineering Institute, Dimičeva 12, SI-1000 Ljubljana, Slovenia**

## 6. Declared performance

Essential characteristics	Performance	Harmonised technical specification
Water reduction	$\geq 12\%$ compared to control mix	EN 934-2 (Table 3.1)
Compressive strength	<u>At 1 day:</u> Test mix $\geq 140\%$ of control mix <u>At 28 days:</u> Test mix $\geq 115\%$ compared to control mix	EN 934-2 (Table 3.1)
Increase in consistence	Increase in slump $\geq +120$ mm from initial ( $30 \pm 10$ ) mm Increase in flow $\geq +160$ mm from initial ( $350 \pm 20$ ) mm	EN 934-2 (Table 3.2)
Retention of consistence	At 30 min $\geq$ control mix at initial	EN 934-2 (Table 3.2)
Compressive strength	<u>At 28 days:</u> Test mix $\geq 90\%$ of control mix	EN 934-2 (Table 3.2)
Air content in fresh concrete	Test mix $\leq +2\%$ by volume above control mix	EN 934-2 (Table 3.1, 3.2)
Chloride content	$\leq 0,10\%$ by mass	EN 934-1
Alkali content	$< 3,0\%$ by mass	EN 934-1
Corrosion behaviour	Contains only substances from lists A.1 and A.2 in Annex A	EN 934-1
Dangerous substances	Meets requirements from Ad.4.3	EN 934-2



**TKK d. o. o.**

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7. The performance of the product identified in point 1 is in conformity with the declared performance in point 6. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3.

Signed for and on behalf of the manufacturer by:

**Name:**

Katarina Clemente, B.Sc. in Chemistry

**Position:**

Admixture Dpt.Product Manager

**Place and date:**

Srpenica, 27.02.2017

**Signature:**



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