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Technical and Test Institute for Construction Prague, SOE

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## Notified Body 1020

in function under CPR, Annex V, Article 2, as amended by Commission Delegated Regulation (EU) No 568/2014, amending Annex V to Regulation (EU) No 305/2011

# REPORT

## on the assessment of performance

according to the Regulation (EU) 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), Art. 1.4 of the Annex V (system 3)

No. 1020-CPR-020-048365

Trade name:

**KERAMOL Flex Rapid**

type / variation:

**cementitious adhesive for tiles type C2FT**

Manufacturer:


**MAXIMA d. o. o.**

INo: 101263444  
Address: Dragiše Mišovića 16, 32240 Lučani, Serbia  
Plant: Maxima d. o. o.  
Address: Dragiše Mišovića 16, 32240 Lučani, Serbia  
Order: Z 020 23 0216

Number of report pages including title-page: 3

Number of Annexes: 6


The person taking responsibility for the content of this report:

  
Ing. Dana Pilařová  
Head Assessor

The person taking responsibility for the correctness of this report:

  
Stamp of the Notified Body 1020

České Budějovice, 18<sup>th</sup> July 2023

  
Ing. Milan Pálka  
Deputy Manager of the Notified Body 1020

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Bank Name: KB Praha 1 Czech Republic, Account Number: 1501-931/0100, INo: 000 15679, VAT: CZ00015679

## 1 Specification of tested subject

Description and intended use of the product: KERAMOL Flex Rapid is cementitious tile adhesive suitable for installing floor and wall tiles in internal and external surroundings. Type C2FT according to EN 12004.

Technical specification: EN 12004:2007 + A1:2012 Adhesives for tiles - Requirements, evaluation of conformity, classification and designation.

Manufacturer: Maxima d. o. o.

Plant: Dragiše Mišovića 16, 32240 Lučani, Serbia

## 2 Sampling

Date of sampling: 6. 12. 2022 and 20. 3. 2023

Place of sampling: Lučani, Serbia

Sampler: representative of manufacturer

## 3 The assessment of performance on basis of testing, calculation, table values, descriptive documentation

### 3.1 The assessment on basis of testing

#### 3.1.1 Tensile adhesive strength EN 1348

The tests were performed by IMS Institute, Belgrade, Boulevard vojvode Mišića 43. The test results are stated in the Testing report No. VHM -1723/22 date of 30.01.2023. (annex No. 1)

Table No. 1

Characteristic	Obtained data value
6 hour initial tensile adhesion strength	0.52 MPa
Initial tensile adhesion strength	1.53 MPa
Tensile adhesion strength after water immersion	1.01 MPa
Tensile adhesion strength after heat ageing	1.35 MPa
Tensile adhesion strength after freeze-thaw cycles	1.01 MPa

#### 3.1.2 Content and release of dangerous substances

##### Measurement and evaluation of content of hexavalent Chrome

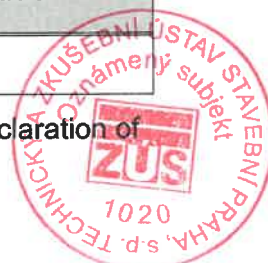
The evaluation was carried out according to Regulation No.1907/2006.

The tests were performed by IMS Institute, Belgrade, Boulevard vojvode Mišića 43. The test results are stated in the Testing report No. VHM -1723-1/22 date of 30.01.2023. (annex No. 2)

Table No. 2

Characteristic	Obtained data value
Content of hexavalent Chrome	1.4 ppm

The product does not contain any other hazardous substances (Manufacturer's declaration of 18.05.2023)



**Note: Reaction to fire**

Classification was carried out according to EN 13501-1 using an EC decision EU No. 2010/81/EU of 09/02/2010, which defines reaction to fire of some of the products (content of organic matters max. 20%). Classification CWFT without need for further testing. Manufacturer's declaration of 10.05.2023.

The reaction to fire classification of the tile adhesive is: E

**4 Summary**

Table No. 3

Characteristic	Test method	Value determined	Requirement EN 12004 + A1 type C2FT
Reaction to fire	EN 13501-1	class E (CWFT)	class E
6 hour initial tensile adhesion strength	EN 1348	0.52 MPa	≥ 0.5 MPa
Initial tensile adhesion strength		1.53 MPa	≥ 1.0 MPa
Tensile adhesion strength after water immersion		1.01 MPa	≥ 1.0 MPa
Tensile adhesion strength after heat ageing		1.35 MPa	≥ 1.0 MPa
Tensile adhesion strength after freeze-thaw cycles		1.01 MPa	≥ 1.0 MPa
Release of dangerous substances Determination of Cr <sup>6+</sup> content	EN 196-10	1.4 ppm	≤ 0.0002%

**5 Annexes**

1. Testing report No. VHM -1723/22 date of 30.01.2023 - IMS Institute, Belgrade, Boulevard vojvode Mišića 43.
2. Testing report No. VHM -1723-1/22 date of 21.03.2023 - IMS Institute, Belgrade, Boulevard vojvode Mišića 43.

**END OF THE PROTOCOL**





INSTITUT IMS AD  
BEOGRAD



Institut za ispitivanje materijala a.d. Beograd  
Centralna laboratorija za ispitivanje materijala  
Laboratorija za veziva, hemiju i maltere

Beograd, Bulevar vojvode Mišića 43  
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## IZVEŠTAJ O ISPITIVANJU

Br. VHM – 1723/22

**Predmet ispitivanja:** Sivi brzovezujući lepak za keramiku  
«KERAMOL® flex rapid»

**Naručilac:** «MAXIMA» d.o.o., Lučani

**Zahtev/Ponuda/Ugovor:** Zahtev broj – 41-16916 od 06.12.2022.

**Sadržaj:** Ukupno 3 strane

**Izveštaj odobrio:** Laboratorija za veziva, hemiju i maltere

Rukovodilac  
Ljiljana Milčić, dipl.hem.

Beograd, 30.01.2023. godine



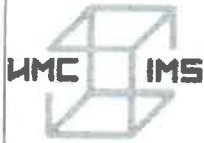
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**Podaci o uzorku:**

<b>Proizvođač:</b>	«MAXIMA» d.o.o., Lučani
<b>Vrsta proizvoda:</b>	Sivi brzovezujući lepak za keramiku
<b>Oznaka proizvoda:</b>	«KERAMOL® flex rapid»
<b>Datum i mesto uzimanja uzorka:</b>	-, Lučani
<b>Datum prijema uzorka na ispitivanje:</b>	06.12.2022.
<b>Datum početka ispitivanja:</b>	06.12.2022.
<b>Datum završetka ispitivanja:</b>	30.01.2023.
<b>Mesto i datum izdavanja izveštaja:</b>	Beograd, 30.01.2023. godine
<b>Uzorkovanje izvršio:</b>	Predstavnik Naručioca
<b>Metoda uzimanja uzoraka:</b>	-
<b>Metode ispitivanja:</b>	SRPS EN 12004-2:2017,
<b>Merna i regulaciona oprema:</b>	<ul style="list-style-type: none"><li>- Automatska vaga tip RJ 1220 METTLER, Švajcarska, mernog opsega 0,5 - 2/12 kg, rezolucije 0,1/1 g</li><li>- Potresni sto TECHNOST, Italija</li><li>- Mešalica sa dozatorom TONINDUSTRIE, Nemačka</li><li>- Presa TONITECHNIC, Nemačka, opsega sile 1/10/30/300 kN, rezolucije 0,1/1/10/100 N,</li><li>- Digitalni pull-off tester, Controls, Italija, mernog opsega 0-16 kN, rezolucije 1N</li></ul>

*Izloženi rezultati se odnose isključivo na ispitani uzorak. Ne preuzima se nikakva odgovornost u pogledu verodostojnosti uzorkovanja, osim u slučaju kada je ono obavljeno pod direktnom kontrolom predstavnika laboratorije. Izveštaj se ne sme umnožavati, izuzev u celini, uz odobrenje Laboratorije za ispitivanje materijala.*





## REZULTATI ISPITIVANJA

1.	Odnos komponenti A :B : H <sub>2</sub> O	1 : / : 0.23
2.	Rasprostiranje, mm	140
3.	Klizanje pločice, mm	0.10
4.	Prionljivost za podlogu od betona, nakon 6h, MPa	0.52 "CF-A"
5.	Prionljivost za podlogu od betona, MPa a) Početna čvrstoća prijanjanja b) Početna čvrstoća prijanjanja nakon potapanja u vodu c) Čvrstoća prijanjanja nakon toplotnog starenja d) Čvrstoća prijanjanja nakon ciklusa smrzavanja - odmrzavanja	1.53 "CF-A" 1.01 "CF-A" 1.35 "CF-A" 1.01 "CF-A"50%/"AF-T"50%
6.	Određivanje „otvorenog“ vremena, Prionljivost za podlogu od betona ako je pločica naneta nakon: MPa - 5 min. - 10 min. - 20 min. - 30 min.	1.75 "CF-A" 1.94 "CF-A" 1.10 "CF-A"50%/"AF-T"50% 1.08 "AF-T"

Rukovodilac ispitivanja

  
Ljiljana Miličić, dipl.hem.

Kraj izveštaj



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## **IZVEŠTAJ O ISPITIVANJU**

**Br. VHM – 1723-1/22**

**Predmet ispitivanja:**

Sadržaj rastvorljivog hroma Cr(VI) u uzorku  
fleksibilnog lepaka za keramiku  
«KERAMOL® flex rapid»

**Naručilac:**

«MAXIMA» d.o.o., Lučani

**Zahtev/Ponuda/Ugovor:**

Zahtev broj – 41-16916 od 06.12.2022.

**Sadržaj:**

Ukupno 3 strane

**Izveštaj odobrio:**

Laboratorija za veziva, hemiju i maltere



Ljiljana Miličić, dipl. hem.

Beograd, 21.03.2023. godine



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**Podaci o uzorku:**

<b>Proizvođač:</b>	-
<b>Vrsta proizvoda:</b>	Fleksibilan lepak za keramiku
<b>Oznaka proizvoda:</b>	«KERAMOL® flex rapid»
<b>Datum i mesto uzimanja uzorka:</b>	-, -
<b>Datum prijema uzorka na ispitivanje:</b>	20.03.2023.
<b>Datum početka ispitivanja:</b>	20.03.2023.
<b>Datum završetka ispitivanja:</b>	21.03.2023.
<b>Mesto i datum izdavanja izveštaja:</b>	Beograd, 21.03.2023. godine
<b>Uzorkovanje izvršio:</b>	Predstavnik Naručioca
<b>Metoda uzimanja uzoraka:</b>	-
<b>Metode ispitivanja:</b>	SRPS EN 196-10:2017.
<b>Merna i regulaciona oprema:</b>	<ul style="list-style-type: none"><li>- Analitička vaga elektronska tip ABT 120-4M, KERN, Nemačka merni opseg 0,0 ÷ 120 g, rezolucija 0,0001 g</li><li>- Automatska vaga tip RJ 1220 METTLER, Švajcarska, mernog opsega 0,5 - 2/12 kg, rezolucije 0,1/1 g</li><li>- Mešalica sa dozatorom TONINDUSTRIE, Nemačka</li><li>- Automatski UV-Vis Spektrofotometrijski Sistem (Agilent Cary 60 UV-Vis),</li></ul>

*Izloženi rezultati se odnose isključivo na ispitani uzorak. Ne preuzima se nikakva odgovornost u pogledu verodostojnosti uzorkovanja, osim u slučaju kada je ono obavljeno pod direktnom kontrolom predstavnika laboratorije. Izveštaj se ne sme umnožavati, izuzev u celini, uz odobrenje Laboratorije za ispitivanje materijala.*





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**REZULTATI ISPITIVANJA**

Sadržaj rastvorljivog hroma Cr (VI), ppm	1.4
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**Rukovodilac ispitivanja**

**Minja Savić, dipl.hem.**

**Kraj izveštaja**