



® TECHNICKÝ A ZKUŠEBNÍ ÚSTAV STAVEBNÍ PRAHA, s.p.
Technical and Test Institute for Construction Prague, SOE
Akreditovaná zkušební laboratoř, Autorizovaná osoba, Notifikovaná osoba, Oznamovaný subjekt, Subjekt pro technické posuzování, Certifikační orgán, Inspekční orgán / Accredited Testing Laboratory, Authorized Body, Notified Body, Technical Assessment Body, Certification Body, Inspection Body. Prosecká 811/76a, 190 00 Praha 9 - Prosek, Czech Republic

Notified Body 1020
Branch 0200 – České Budějovice

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-020047281

Trade name: **WP-KFIX FLEX S1**

type / variation:

cementitious adhesive for ceramic tiles, type C2TE S1

Manufacturer:


WIENER PULVER DOO

INo: 113199392
Address: Duško Trifunović7, Apatin 25260, Serbia
Plant: WIENER PULVER DOO
Address: Prigrevačka bb, Apatin 25260, Serbia
Order: Z 020 22 0322

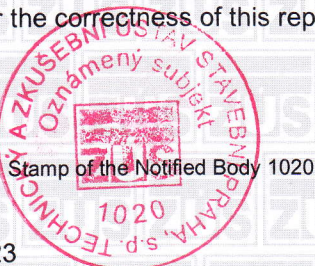
Number of report pages including title-page: 3

Number of Annexes: 4


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:



České Budějovice, 9th January 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: WP-KFIX FLEX S1 is cementitious tile adhesive suitable for installing floor and wall tiles in internal and external surroundings. Type C2TE S1 according to EN 12004.

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

Manufacturer: WIENER PULVER DOO

Plant: Prigrevačka bb, Apatin 25260, Serbia

2 Sampling

Date of sampling: 12. 12. 2022
 Place of sampling: Apatin, Serbia
 Sampler: representative of manufacturer
 Sample Registration number: VZ040223254

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 -1403/22 date of 29. 11. 2022

Table No. 1

Characteristic	Obtained data value
Initial Tensile Adhesion Strength	1.89 MPa
Water Immersion Tensile Adhesion Strength	1.11 MPa
Heat Ageing Tensile Adhesion Strength	1.53 MPa
Freeze-thaw Tensile Adhesion Strength	1.17 MPa

Note: For the 28 day initial and water immersion tensile adhesion strength, the test method (EN 12004-2) is technically equivalent to EN 1348 and therefore the results equate to the results obtained when testing to EN 1348.

3.1.2 Content and release of dangerous substances

Measurement and evaluation of natural radionuclide content

The evaluation was carried out according to Regulation SÚJB no. 422/2016 Sb.

The tests were performed by TZÚS Prague, Teplice Branch, Tolstého 447,4150 03 Teplice. The test results are stated in the Testing report No. 040-073574 date of 6. 1. 2023.

Table No. 2

Characteristic	Obtained data value
Measured mass activity "a" Ra-226	24 ± 6 Bq/kg
Index of mass activity "I"	0.19 ± 0.07



3.2 The assessment on basis of calculation

3.2.1 Release of dangerous substances

Assessment on content of hexavalent Chrome

Is not performed if applicant brings out evidence of conformity with of EC Regulation No.1907/2006 for cement used.

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.

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

4 Summary

Table No. 3

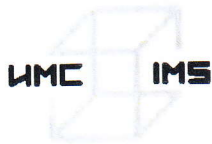
Characteristic	Test method	Value determined	Requirement EN 12004 + A1 type C2TE S1
Reaction to fire	EN 13501-1	class E (CWFT)	class E
Initial Tensile Adhesion Strength	EN 1348	1.89 MPa	≥ 1.0 MPa
Water Immersion Tensile Adhesion Strength		1.11 MPa	≥ 1.0 MPa
Heat Ageing Tensile Adhesion Strength		1.53 MPa	≥ 1.0 MPa
Freeze-Thaw Tensile Adhesion Strength		1.17 MPa	≥ 1.0 MPa
Release of dangerous substances • Index of mass activity "I"	Recommendation of SÚJB	0.19 ± 0.07	≤ 1
Determination of Cr ⁶⁺ content	EN 196-10	Is not performed if applicant brings out evidence of conformity with of EC Regulation No.1907/2006 for cement used	

5 Annexes

1. Testing report No. VHM -1403/22 date of 29. 11. 2022 - IMS Institute, Belgrade, Boulevard vojvode Mišića 43.
2. Testing report No. 040-073574 date of 6. 1. 2023 – TZÚS Teplice.

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 – 1403/22

Predmet ispitivanja:

Lepak za keramičke pločice
«WP Kfix S1 Flex»

Naručilac:

«WIENER PULVER» d.o.o., Apatin

Zahtev/Ponuda/Ugovor:

Zahtev broj – 41-14168 od 10.10.2022.

Sadržaj:

Ukupno 3 strane

Izveštaj odobrio:

Laboratorija za veziva, hemiju i maltere

Rukovodilac

Ljiljana Miličić dipl.hem.



Beograd, 29.11.2022. godine



Podaci o uzorku:

Proizvođač: -
Vrsta proizvoda: Lepak za keramičke pločice
Oznaka proizvoda: «WP Kfix S1 Flex»
Datum i mesto uzimanja uzorka: -
Datum prijema uzorka na ispitivanje: 04.10.2022.
Datum početka ispitivanja: 04.10.2022.
Datum završetka ispitivanja: 25.11.2022.
Mesto i datum izdavanja izveštaja: Beograd, 29.11.2022. godine
Uzorkovanje izvršio: Predstavnik Naručioca
Metoda uzimanja uzoraka: -
Metode ispitivanja: SRPS EN 12004-2:2017,

Merna i regulaciona oprema:

- Automatska vaga tip RJ 1220 METTLER, Švajcarska, mernog opsega 0,5 - 2/12 kg, rezolucije 0,1/1 g
- Potresni sto TECHNOST, Italija
- Mešalica sa dozatorom TONINDUSTRIE, Nemačka
- Digitalni pull-off tester, Controls, Italija, mernog opsega 0-16 kN, rezolucije 1N

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 množavati, izuzev u celini, uz odobrenje Laboratorije za ispitivanje materijala.



REZULTATI ISPITIVANJA

1.	Odnos komponenti A : B : H ₂ O	1 : / : 0.29
2.	Konzistencija – Rasprostiranje na potresnom stolu, mm	155
3.	Klizanje pločice, mm	0.43
4.	Transferzalna deformacija, mm	2.53
5.	Prionljivost za podlogu od betona, Mpa a) Početna čvrstoća prijanjanja b) Čvrstoća prijanjanja nakon potapanja u vodu c) Čvrstoća prijanjanja nakon toplotnog starenja d) Čvrstoća prijanjanja nakon ciklusa smrzavanja- odmrzavanja	1.89 "CF-A" 1.11 "AF-T" 1.53 "CF-A" 1.17 "CF-A"50%/"AF-T"50%
6.	Odredjivanje „otvorenog“ vremena, Prionljivost za podlogu od betona ako je pločica naneta nakon: Mpa - 5 min. - 10 min. - 20 min. - 30 min.	1.95 "CF-A" 1.51 "CF-A"50%/"AF-T"50% 0.79 "AF-T" 0.71 "AF-T"

Rukovodilac ispitivanja


Ljiljana Miličić, dipl.hem.

Kraj izveštaj



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Central Laboratory - Teplice Testing Laboratory

Tolstého 447, 415 03 Teplice - Řetenice
 tel.: +420 602 115 450, e-mail: rubas@tzus.cz, www.tzus.eu
 Radionuclide Laboratory room No.: 113

REPORT No. 040-073 574

Measuring and evaluating natural radionuclide contents of building materials.

Basic data:		Information about the sample/sampled construction material:	
Contract owner:	Technický a zkušební ústav stavební Praha, s.p.	Teplice Testing Laboratory sample number/contract owner sample number:	VZ 040 223254
Address:	České Budějovice branch office Nemanická 441 370 10 České Budějovice	Sample:	WP-KFIX FLEX S1
CRN:	000 15 679	Material type(s):	---
Manufacturing facility:	WIENER PULVER DOO Apatin Serbia	Sampling location:	Duško Trifunović 7, Apatin 25260 Serbia
Address:	Duško Trifunović 7, Apatin 25260 Serbia	Manufacture date:	---
Teplice Testing Laboratory order number/contract owner order number:	Z 040 22 0378 Z 020 22 0322	Date of sampling/date of acceptance:	---
		Acceptance date:	12.12.2022
		Measuring date:	06.01.2023
		Intended use:	---
		Description of the sampling method:	---
		Drying of the sample:	---
		Information about treatment of the sample outside the laboratory:	---

Permission to measure and evaluate the content of natural radionuclides in construction materials was granted to Technický a zkušební ústav stavební Praha, s.p. – Teplice Branch by the decision of State Office for Nuclear Safety ref. No. SÚJB/OPZ/16533/ 2008 on 15 July 2008 with unlimited validity.

Test result:

Test method name:	Measurement and evaluation of the content of natural radionuclides 226Ra, 40K, 228Th by gamma spectrometry. Determination of activity index by calculation from measured values
Test method identification:	DR-RO-5.2 Measurement and evaluation of the content of natural radionuclides in building materials - SÚJB Recommendation DR-RO-5.2 (Rev. 0.0) dated 1.11.2017, no. SÚJB / OS / 18895/2017
Test description:	The sample was measured in a standard Marinelli beaker 450 ml after radioactive equilibrium was established by EMS-1 SH detection system, ser. No.: 9611 made by EMPOS, s. r. o. Praha
Employee in charge:	Ing. Pavel Rubáš, Ph.D. Decision of SÚJB to grant authorization ZOZ ref. No. SÚJB/OPR/21914/2018)
Sample collected/accepted by:	Accepted by p. Veselý (representing TZÚS)
Test location:	Teplice Testing Laboratory
Measuring results:	The test results refer to the sample as received. The table below lists the observed activity concentrations of natural radionuclides and the activity concentration index values "I" as defined by Regulation of the State Office for Nuclear Safety No. 422/2016 Coll.

Natural radionuclide	Measured activity concentration "a"[Bq·kg ⁻¹]	Activity concentration index "I" (calculation)
Ra-226	a _{Ra} 24 ± 6	$0,19 \pm 0,07$ $\frac{226_{Ra}}{300} + \frac{228_{Th}}{200} + \frac{40_K}{3000}$
Th-228	a _{Th} 15 ± 4	
K-40	a _K 122 ± 43	

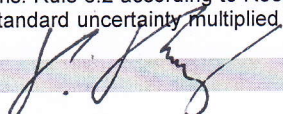
Testing equipment:

NaJ/Tl scintillation detector 50 × 50 mm, MCA 1256), reg. no. 260, verified according to Act on Metrology No. 505/1990 Coll. Czech Metrology Institute verification sheet No. 1054-PS-40189-21 of 20 December 2021, valid till 31 December 2023). The instrumentation and gauges are verified and calibrated periodically as specified in the Teplice Testing Laboratory validation/calibration schedule.

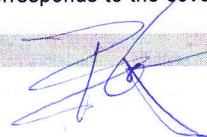
Statement of conformity (assessment of results):

The activity concentration index does not exceed the value of $I = 1$, set by Regulation No.422/2016 Coll. as the limiting level for building materials used for buildings containing residential rooms. Rule 6.2 according to Recommendation of SÚJB DR-RO-5.2 (Rev. 0.0) was used. The given expanded uncertainty of is the product of the combined standard uncertainty multiplied by the coverage factor $k = 2$, which corresponds to the coverage of approximately 95 % for normal distribution.

Created by:


 Pavel Rubáš, Ph.D.
 Holder of Professional Competence Certification,
 Test Technician – Specialist, 1st Deputy of
 Statutory Representative

Approved by:


 Pavel Bartoš
 Head of the Testing Laboratory
 Teplice, on 06.01.2023



Copy No.:

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