



# TEST REPORT

issued by Testing Laboratory

**No. 020-039987**

**on Initial Type Testing according to EN 13963**

- Adhesion to substrate
- Bending tensile strength
- Cracking
- Granularity
- Setting time
- Content of natural radionuclides

Manufacturer: **OOO «PAK«RielInvest Ocenka»**  
Address: Russian Federation, 352272, Krasnodarskij region,  
Otradenskij rajon chutor Chloponin, Moskevskaja Str. 1  
Company ID: 2345004377  
Plant: Russian Federation, 352272, Krasnodarskij region,  
Otradenskij rajon chutor Chloponin, Moskevskaja Str. 1  
Test sample: Gypsum putty No.21 T.M. „Power Plast“  
Order No.: Z020180162

Number of pages of the Test Report incl. title page: 3

Pages of annexes: 1

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Print No.: 1

Number of prints: 2



Stamp of Testing Laboratory

České Budějovice, on 16.11.2018

**Declaration: 1) The test results in this Report relate only to the tested article and they do not substitute any other documents**  
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**TECHNICKÝ A ZKUŠEBNÍ ÚSTAV STAVEBNÍ PRAHA, s.p.**  
**Technical and Test Institute for Construction Prague**

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 Laboratoř radionuklidů č. m.: 113

L 1018.3

**REPORT No. 040-059543**

**Measuring and evaluating the content of natural radionuclides in construction materials.**

**Basic data:**

Client: **OOO «PAK«RieltInvest Otsenka»**  
 Address: Russian Federation, 352272, Krasnodar Territory, Otradnensky District, Hutor Khloponin, Moskovskaya Street, No.1  
 Company identification No.: ---  
 Production plant: **OOO «PAC«RiseltInvestRating»**  
 Address: Russian Federation, 352272, Krasnodar Territory, Otradnensky District, Hutor Khloponin, Moskovskaya Street, No. 1  
 Job No.: Z040 18 0256

**Sample data:**

Sample No.: VZ 040 18 2206  
 Sample: Gypsum putty No21 T.M. Power Plast  
 Kind of material: Building products of concrete, gypsum, cement and lime  
 Sampling site: Plant  
 Sampling date: 05.10.2018 (delivered to the Czech Republic)  
 Date received: 10.10.2018  
 Measurement date: 02.11.2018

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

**Result of the test:**

Test: Measuring and evaluating the content of natural radionuclides in construction materials.  
 Test procedure: The sample was measured in a standard Marinelli beaker after radioactive equilibrium was established by EMS-1 SH detection system, ser. No.: ÚJP 025, made by EMPOS, s. r. o. Praha (scintillation detector NaJ/Tl 50 × 50 mm, MCA 1256), verified pursuant to Act on Metrology No. 505/1990 Coll. - Verification Certificate ČMI No. 1054-PS-50031-17 of 29 December 2017, valid until 31 December 2019.  
 Responsible worker: Mr. Lukáš Rulf (Decision of SÚJB to grant authorization ZOZ ref. No. SÚJB/OPR/14241/2018)  
 Sample taken by: manufacturer's representative

Natural radionuclide	Measured activity concentration "a" [Bq·kg <sup>-1</sup> ]	Activity concentration index "I" (calculation)
Ra-226	$a_{Ra} \quad 10 \pm 4$	<b>0,03</b> (for $a_K = 0$ ) <b>až 0,05</b> (for $a_K = 42$ )
Th-228	$a_{Th} \quad < 1$	$I = a_K / 3000 \text{ Bq} \cdot \text{kg}^{-1} + a_{Ra} / 300 \text{ Bq} \cdot \text{kg}^{-1} + a_{Th} / 200 \text{ Bq} \cdot \text{kg}^{-1}$
K-40	$a_K \quad < 42$	(see Section 3 (h) of the SÚJB Decree No. 422/ 2016 Coll.)

**Test evaluation:**

- The value of activity concentration  $a_{Ra226}$  of the sample does not exceed the **limited values** specified for this material by SÚJB Decree No. 422/ 2016 Coll. as amended (see Section 96(1) and Table No. 1 of Appendix No. 10).
- The value of activity concentration index "I" of the sample **does not exceed any of the specified values** determined according to the use of the material by SÚJB Decree No. 422/ 2016 Coll. as amended. (see Section 96(2) and Table No. 2 of Appendix No. 10).

**Testing equipment:**

The used instruments and gauges are verified and calibrated according to the valid plan at the Teplice Testing Facility.

**Author:**

Lukáš Rulf  
 author of this document

**Approved by:**

Ing. Pavel Bartoš  
 testing facility manager deputy  
 Teplice on 05.11.2018

**Copy No.:**

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