

Translation from Polish -/-



RKS adhesive mortar in the quick mix **LOBATHERM P** insulation system. -/-

It is a universal mortar for applying insulation boards made of wool and Styrofoam and for applying clinker tiles, ceramic tiles and milled rock tiles in the **Lobatherm P** insulation system by quick mix. -/-

CHARACTERISTICS: -/-

- mineral mortar -/-
- water-repellent -/-
- frost proof and water resistant after hardening completely -/-
- strong adhesive power -/-
- good stability -/-
- easy manual and machine treatment -/-
- resistant to UV rays and adverse weather conditions -/-
- priming not necessary (if the technological phases are not interrupted) -/-
- grey colour -/-

Where to USE -/-

- to be used in **LOBATHERM P** insulation systems by quick mix -/-
- to apply insulation boards made of EPS polystyrene and mineral wool -/-
- to apply clinker and ceramic tiles -/-

QUALITY and RELIABILITY -/-

- product in a **LOBATHERM P** system -/-
- quality regularly checked under **ISO 9001** standards -/-
- cement according to PN- EN 197 standard -/-
- the amount of chrome VI used has been reduced to <2 ppm -/-

BASE -/-

Base must be dry, clean, free from dust, Styrofoam parts and other anti-adhesives. -/-

Loose parts and the remnants of previous layers must be removed. Bases like concrete, all kinds of walls, cement- calcium plaster or cement plasters as well as plasters made of artificial resin and painter's layers, if their resistance for removing exceeds 0.08 N/mm^2 . In case of highly absorbable bases they must be moistened or grounded with the **ABS** or **UG** prime coat by quick mix. -/-

The directions included in the standards regulating the types of bases must be accounted for while estimating the type of base. The requirements regarding the type of Styrofoam boards and anchors as well as further details concerning the insulation board installation are included in ITB Manual 418/2007 and 447/2009. -/-

THE TREATMENT -/-

The mortar must be mixed manually or with the use of commonly available machines or pumping-mixing engines. In case of manual mixing the mortar must be precisely stirred using widely available devices with the helical agitator until the mixture becomes homogenous without any clumps. The mortar is ready to use after 5 minutes of curing. The amount of water needed for a bag of 25 kilos is about 6.0 litres, some more may be added if necessary. The treatment time at the temperature of 20°C is about 1 hour. -/-

Applying the insulation boards. -/-

The adhesive mortar must be applied around the edges of the board in the shape of a roller, and in a few places in the centre of the board, so that about 60% of the board surface ,(at least 40%) after pressing it, is covered with the adhesive mortar. CAUTION: the adhesive mortar cannot enter in the slots between the boards, if that happens it must be removed at once. If it is applied to an even surface, the mortar can be applied evenly to the insulation boards with the use of notched trowel (with notches of $10 \times 10 \times 10 \text{ mm}$). When applying the mineral wool board, the mortar must be applied to the board surface (luting and pressing). In the second phase of technological process the mortar must be applied to the whole surface of the board in "wet on wet" style. When using the coated lamella boards of "speed rock" type or others the adhesive mortar may be applied to the whole surface of base. Just before applying insulation boards the layer of mortar must be "combed" with the notched trowel (notches of $10 \times 10 \times 10 \text{ mm}$). The boards must be applied to the fresh mortar within 10 minutes by sticking the side with the mortar to the base and further pressing it with a large trowel. -/-

Applying the facade tiles -/-

After the reinforced layer has hardened completely (a technological interval period of at least 7 days), the ceramic tiles can be applied. The tiles must be applied with the use of floating- buttering method. The adhesive mortar 3-4 mm thick must be applied to the hardened reinforced layer with the use of a notched trowel (notches of $8 \times 8 \times 8 \text{ mm}$ or $10 \times 10 \times 10 \text{ mm}$). The reverse side of the tiles is to be covered with a coat of adhesive mortar about 1 mm thick. Next, press the tiles strongly to the

wall covered with the mortar, carefully eliminating any empty spaces between them. After applying the facing the coat of mortar must be at least 3 mm thick. After initial hardening the joints must be scratched and cleared to the desired level (at least as thick as the tiles). The fresh coat of mortar must be protected from drying too quickly as well as from adverse weather conditions (such as frost and so on). The treatment should be performed when the outside temperature is between +5° C and + 25°C. -/-

The EFFICIENCY -/-

25 kg of dry RKS mortar after mixing adequately for the treatment makes about 19 litres of wet mortar. -/-

THE CONSUMPTION -/-

About 1.3 kg of dry mortar is needed to cover 1 m² of surface with the coat of adhesive mortar 1 mm thick. -/-

STORAGE -/-

Store in a dry place on wooden pallets. Storage period: 12 months from the manufacturing date shown on the packaging. -/-

PACKAGING -/-

A bag of 25 kg. -/-

CAUTION: -/-

The product contains cement which may cause allergy. When mixed with water or moisture evokes alkaline reaction. Therefore eyes and skin must be protected. In case of contact with skin, the skin must be washed carefully with water. In case of contact with the eye, it must be washed with a large amount of water and the doctor's advice is needed immediately. -/-

The information contained herein are based on widespread research and practical tests. They do not account for any instance of use. That is why performing a test is recommended. The manufacturer reserves the right to introduce technical changes connected with improving the product. Our general trading terms apply to other aspects. -/-

TECHNICAL CHARACTERISTICS: -/-

Treatment time:	up to 1 hour at the temperature 20°C
Compression strength:	> 10 N/mm ²
Water consumption:	about 6 litres for 25 kg
Adhesion to concrete:	
- after storing samples in a dry air conditions	≥ 0.25 MPa
- after 24- hour soaking in water	≥0.08 MPa

- after 5 thermal-humid cycles	≥0.25 MPa
Adhesion to Styrofoam:	
- after storing samples in a dry air conditions	≥ 0.1 MPa
- after 24- hour soaking in water	≥0.1 MPa
- after 5 thermal-humid cycles	≥0.1 MPa
Output/ Efficiency	about 19 litres out of 25 kg
Productivity/ Consumption?	about 1.3 kg/m ² for a layer 1mm thick
Grain- size distribution:	0-1 mm
The layer thickness for applying the tiles:	not less than 3mm
The treatment temperature:	+5° C to +25° C
Storing:	In a dry place for 12 months since manufacturing date
Available in packaging:	25 kg
Colour:	grey

The technical characteristics refer to the following weather conditions: temperature 20°C and relative air humidity at 65%. -/-

REQUIREMENTS CONCERNING CERAMIC AND/OR CLINKER TILES: -/-

Resistance to frost:	under EN 202
Tile thickness:	≤ 15 mm
Maximum tile size:	≤0.09 m ² (or 30x 30 cm)
Maximum side length:	≤30 cm
Total porosity:	not less than 20 mm ³ / g
Distribution of size of pores with maximal radius	more than 0.2 micrometre (2x 10 ⁻⁴ mm)
Absorbability (system using Styrofoam):	≤ 6% under EN 99
Absorbability (system using mineral wool):	≤ 3% under EN 99
Other elementary requirements	
Basic percentage of joints in the surface:	more than 6 %
Dowelling (system using Styrofoam):	- in new buildings not taller than 8 m- no dowels - in old buildings not taller than 8 m – dowels under the net
Dowelling (system using mineral wool):	- in all buildings dowelling using/ through the net

The product is a part of the **LOBATHERM P** insulation system and is compatible with the technical approval: AT-15-8940/2012. -/-

The National Declaration of SKS Compatibility: 12080219/ 22.08. 2012 -/-

Unit issuing the certificate: ITB Warsaw no. AC 020 -/-

Manufacturing unit: -/-

No. 60 address: ul. Brzegowa 73, Strzelin, postcode: 57-100 -/-

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Data as of March 2013 -/-

After this technical manual has been issued, the previous instructions become invalid. -/-

More information available from: -/-

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I, the undersigned sworn translator of English in Jaworzno certify the accuracy of the above translation with the document presented to me. Jaworzno, 12th December 2016.

The translation has five pages.

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