



ООО «Полимер Экспорт»

ПРОМЫШЛЕННЫЕ ЛАКОКРАСОЧНЫЕ ПОКРЫТИЯ

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Release date: 14.08.2023

Manufacturer: Russian Federation

TY 20.30.11-019-69372620-2023

# THERMO INSULATING PAINT «POWER SAVING»

## CERTIFICATE

State Registration Certificate № RU. .08.08.09.008.E.002204.09.23 from 20.09.2023.  
Expert Report № T-8-124 from 18.05.2011.

## DESCRIPTION

Water-based thermal protective coating filled with hollow micro spheres.

## FIELDS OF APPLICATION

Thermo-insulating water-based paint "Power-Saving" is intended for a thermo-insulating covering of various surfaces: metal, concrete, a brick, glass, plastic. It is used for insulation of basements, attics, residential premises, window slopes, pipes, steam- and heat pipes.

It reduces heat loss by up to 60%, prevents the appearance of mold when applied in the basements of residential and industrial buildings. When painting facades and stairwells, heating and air conditioning costs are reduced. The paint is almost odourless, easy and evenly applied on the surface. Fast drying. Non-toxic, does not contain organic solvents. Tinting is possible.

## TECHNICAL DATA

Surface	White homogeneous suspension, after drying forms a solid elastic coating without foreign inclusions.
Gloss	Matt
Density in liquid, no more	0,57±0,05 g/cm <sup>3</sup>
Open time to grade 3 at t = (20±2)°C, no more	120 min
Conductance at 20°C, no more	0,022 W/m°C
Tensile strength, no less	0,3 MPa
Breaking extension, No more	12%
Impact strength, no less	1 MPa
Surface temperature	From +7°C to +50°C
Effective use range	From -40°C to +45°C
Theoretical coverage per 1 m <sup>2</sup> at DFT 1000 mc	1140 g

## INSTRUCTION FOR USE

All surfaces must be clean and free from old paint, dust, dirt, oil and grease.

### Metal structures preparation:

Metal structures must be dry and clean (free of dust, dirt, grease, oil and rust) and must be primed with anticorrosive primers (depending on the type of metal structures and their operating conditions): the anticorrosive layer thickness must be at least 50 microns. The type and conditions of paint application and varnish material used as a primer layer must be agreed with "RAUM-PROFIE" company technical service.

After priming the metal structure is maintained for at least 24 hours depending on the exterior temperature and humidity.

**Attention!** Under-dried primer layer as well as contaminants presence on the metal structures surface can cause thermal insulation coating cracking and partial detachment.

**For more detailed information, see the application instructions.\***



Собственное современное производство



Система Менеджмента Качества (ISO 9001)



Аттестованная лаборатория



На рынке с 2002 года



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#### CONDITIONS

Should be used in a dry room or in an open area with low humidity and without weather elements, at temperature of +10°C to + 25°C.

#### APPLICATION

**Preparing** Ready to use. Before applying, make sure the package is tight, check the release date of the batch and the expiration date. After opening, the container contents should be mixed mechanically (drill or mixer with an appropriate attachment) for 5-7 minutes at a speed of 200 Rev/min. Manual stirring at least 10 minutes. Can be thinned with water before application if needed. The amount of water depends on the base temperature and subsequent operation, but not more than 5% by volume.

**Airless spray** Nozzle diameter: 0,025"-0,030"  
Initial pressure: 180-200 atm

**Brush** Use for small areas only

**Thinner** Water

**Cleaner** Water

**Cleaning** Clean the equipment after use according to the manual.

The composition is applied in layers with intermediate drying between coats at least 24 hours at temperature +20°C and relative humidity not more than 80% with **wet layer thickness 0.3-0.4 mm**. At a temperature below +20°C and air humidity more than 80% the composition drying time may increase. Do not apply in the presence of moisture (water, dew, ice, frost) on the surface to be painted.

**Attention!** Wet or exceeding recommended thickness of applied thermal insulation coating layer **can cause subsequent cracking and peeling coating**. At a temperature below recommended application process does not occur film coating.

#### PACKAGE SIZE

Plastic bucket 20 L: 10 kg

#### STORAGE

Store in a tightly closed container in a closed dry room at a temperature from - 40 ° C to + 40 ° C, away from sources of ignition, protecting from mechanical damage, direct sunlight and moisture.  
**DO NOT FREEZE!**

#### GUARANTEED STORAGE LIFE

Expire date is 6 months in case if delivery and storing rules are followed. After expire date shouldn't be used without tests.

#### HEALTH AND SAFETY

Observe precautionary measures. Use means of individual protection (respirators, gloves, glasses, etc.). Use under well ventilated conditions. Use in places without sources of open fire and ignition only. Avoid skin or eyes contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water, don't use solvents. If eyes contact, rinse with clean water for at least 10 minutes, consult a doctor. In case of ingestion consult a doctor.

#### RECYCLING

Packing materials are recycled as consumer waste.

#### Further Information.

The recommendations above are based on our own research and our best knowledge but don't fully guarantee any particular case as it depends on the quality, friability and porosity of the base. The local working conditions and methods may vary and are beyond our control. Therefore we cannot be held responsible for the actual work on the site. The information is currently updating.



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