

ISOLLAT-EFFECT Product Data Sheet

Advantages • Universal insulating material • High thermal insulation properties • High sound insulation properties • Economic efficiency • Excellent adhesion to any surface • Wide range of application temperatures from - 60 to + 700 ° C • Durability in all operating conditions • Environmental safety ISO 14001/14024 • High vapor permeability • Elasticity • Light reflection up to 96% • High resistance to a wide range of solar radiation. • Aesthetic appearance	Name: Isollat-Effect									
	Description: Composite coating based on liquid-ceramic materials "ISOLLAT" and other heat-insulating materials. According to the unique developed technology, the thickness of the coating varies depending on the requirements of a particular object, which allows for the most effective thermal insulation with unique properties and an optimal estimated cost.									
	Container, packing:									
	<table><tr><th>Isollat</th><th>Fiberglass</th></tr><tr><td>12 kg - 19 liters</td><td>Roll: 1m * D500 -30 l/m</td></tr><tr><td>6 kg - 10 liters</td><td>Roll: 1.4m * D350 -15 l/m</td></tr><tr><td>3 kg - 5 liters</td><td></td></tr></table>	Isollat	Fiberglass	12 kg - 19 liters	Roll: 1m * D500 -30 l/m	6 kg - 10 liters	Roll: 1.4m * D350 -15 l/m	3 kg - 5 liters		
Isollat	Fiberglass									
12 kg - 19 liters	Roll: 1m * D500 -30 l/m									
6 kg - 10 liters	Roll: 1.4m * D350 -15 l/m									
3 kg - 5 liters										

ISOLLAT EFFECT - is a combined heat-insulating material consisting of successively applied layers of the ISOLLAT liquid-ceramic coating and fiberglass fabrics of the IPM-E-9-1000 or IPS- T-1000 type.

After complete drying, the combined coating becomes a durable, vandal-resistant universal heat-insulating material with high thermal, physical, and mechanical characteristics. This coating is intended for thermal insulation of objects with high temperatures, objects of complex shapes, objects with increased requirements for reducing heat losses, and also, due to its unique characteristics, is able to solve the most complex and extraordinary tasks.

One layer of Isollat-Effect = 0.5 mm Isollat-02/04 + 1 layer of fiberglass +1 layer of mesh of the painting 2x2 mm. - total thickness of one layer 10mm

Isollat-02/01 /M/ A is applied as a finishing layer for any coating thickness without fail to ensure the integrity and weather resistance of the coating.

ISOLLAT-EFFECT

ISOLLAT-EFFECT Product Data Sheet

Isollat-Effect specifications

Characteristic	Value
View	Composite insulation material
Colour	Finish coat white, tinted
Thickness of 1 layer	7.5-10 mm *
Number of layers	1 to 20
The mass of one layer per unit area. g / m ²	1300 ± 12
Thermal conductivity, W / m ° C	0.0254
Flammability	A1 - B *
Reduction of heat loss of 1 layer, times	9-10
Light reflection of the finishing layer	Up to 0.96
Water vapor permeability, mg / (m · h · Pa), not less	Not less than 0.012
Moisture absorption,%	2 to 4.8% *
Adhesion	5 to 25 kg / cm ² *
Compressibility%,	5
Breaking strength, kgf / cm ²	80

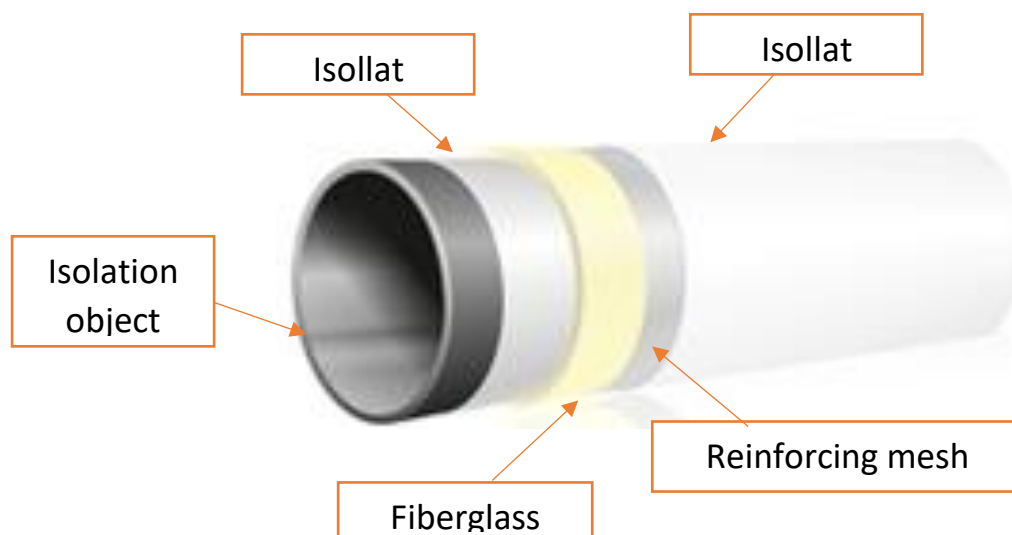
ISOLLAT-EFFECT

ISOLLAT-EFFECT Product Data Sheet

Characteristic	Value
Coating resistance to temperature drops from -40 ° C to + 60 ° C	Steadily
Operating temperature, ° C.	From - 60 to +700
Application method	Application with the recommended working equipment as recommended by the manufacturer
Durability	10 years
Drying time at 20 ° c 1 layer	20 hours
Shelf life	1 year from date of manufacture if stored indoors in unopened or original containers at 5 to 20 ° c

* - the value of the indicator varies depending on the type of materials used in the composition

Scheme and appearance of Isollat-Effect-100 composite material on the example of a pipeline



ISOLLAT-EFFECT

ISOLLAT-EFFECT Product Data Sheet

Application recommendations:

Isollat-Effect can be applied to the following surfaces: metal, brick, lime-plaster, concrete, wood. The surface to be coated must be cleaned of old detached coating, dirt, dust, and defatted.

The material is applied in accordance with the manufacturer's instructions provided individually for each type of insulation.

Depending on the number of layers and total thickness, the material is classified with the following designation: **Isollat-Effect 100 - 10 mm, Isollat-Effect 200 - 20 mm, Isollat-Effect 300 - 30 mm, etc.**

Theoretical consumption of Isollat-Effect composite coating materials

Layer thickness	Isollat Consumption	Fiberglass consumption	Mesh consumption
Isollat-Effect 100, 10 mm	1.5 l	1 m ²	1 m ²
Isollat-Effect 200, 20 mm	2 l	2 m ²	2 m ²
Isollat-Effect 300, 30 mm	2.5 l	3 m ²	3 m ²
Isollat-Effect 400, 40 mm	3 l	4 m ²	4 m ²
Isollat-Effect 500, 50 mm	4.5 l	5 m ²	5 m ²
Isollat-Effect 600, 60 mm	5 l	6 m ²	6 m ²

- The table shows the values of the theoretical consumption of materials, when calculating the practical consumption, it is necessary to take into account the curvature of the surface, the complexity of the structure and technological losses during application.

Main objects of application:

Any pipelines and their individual elements, heating systems, systems for transporting liquid elements, gas ducts, chimneys, tanks, boilers, drying drums, reactors, manifolds, furnaces, refrigeration equipment, buildings and structures.

Certification

All manufactured products comply with the requirements of ISO 9001, ISO 14001, ISO 14024. The manufactured products are protected by 8 patents for inventions, and have many years of experience working with the largest companies in the world.

ISOLLAT-EFFECT