

PERFORMANCE DATA SHEET

GoTherm

Description:

Very effective for the insulation of steel construction elements, hot and cold water pipelines and air conditioning systems. It is an effective protection against the penetration of frost and surface water vapor condensation as well as in solving the problem of thermal bridges. Surface coated with GoTherm is protected against mold bloom and has extended service life.

The product is stable, has high adhesion to metals without surface corrosion, and to building materials. The product can be dyed in any color or covered with paint based on water dispersion.

Application:

Protection against the penetration of frost and surface water vapor condensation, as well as for solving the problem of thermal bridges and improving health and safety conditions, and as a surface finish with antibacterial properties. GoTherm is recommended for insulation and protection of steel elements, plaster, concrete, wood, etc. The paint can be applied on:

- hot and cold water pipelines,
- sanitary fittings, valves,
- ventilation and air conditioning ducts, fittings and pipes,
- roofing materials,
- sheet metal garages, containers,
- industrial installations,
- rooms with high air humidity with a risk of mold and fungi, such as swimming pools and saunas,
- public utility facilities such as hospitals, medical clinics and various types of offices in which the use of antibacterial coatings is recommended - GoTherm prevents the development of, among others, staphylococcus aureus, E. coli and pneumonia,
- historic buildings where, due to the complex shape of the facade, wool or polystyrene cannot be used,
- partitions made of brick, plaster or concrete, elements made of wood.

Our paint is effective, ecological and safe for health, which allows it to be used outdoors and indoors.

Summary of properties

| Parameters | Test method | Result | |
|---|-----------------------------------|----------------------------------|--------|
| Density, [g/cm ³] | PN-EN ISO 2811-1:2016-04 | 0,47 - 0,7 | |
| Surface drying time, [h] T = (23±2) °C i RH = (50±5)% | PN-EN ISO 9117-3:2010 | 0,5 | |
| Qualitative coverage | PN-C-81536:1989, method C | III | |
| The gloss of the coating, determined at a measuring angle of 85° for matt coatings | PN-EN ISO 2813:2014-11 | 1,9 | |
| Coating resistance to detachment from the substrate, grade, classification according to PN-EN ISO 2409: 2013-06 | PN-C-81914:2002, p. 3.5.3 | 0 | |
| Coating resistance to wet scrubbing, thickness reduction, µm after 200 scrubbing cycles | PN-EN ISO 11998:2007 | 14 | |
| Total Solar Reflection (TSR), [%] | ASTM E903 | 90,04 | |
| Volatile Organic Substances (VOC), [g/l] | PN-EN ISO 11890-2:2013-06 | 0,6 | |
| Coating adhesion by the peel off method [MPa] averaged results | PN-EN ISO 4624:2004 | In phase zero | 1,33 |
| | | After 12 cycles | 3,33 |
| | | After 48 cycles | 3,42 |
| Calculated coefficient of thermal conductivity λ _o | - | 0,00053 W/(m*K) | |
| Microbiological testing | | | |
| Evaluation of the antimicrobial activity | Staphylococcus aureus ATCC 25923 | Bactericidal effectiveness (ABE) | 99,39% |
| | Escherichia coli ATCC 25922 | Bactericidal effectiveness (ABE) | 99,99% |
| | Klebsiella pneumoniae ATCC 700608 | Bactericidal effectiveness (ABE) | 99,99% |
| | Candida albicans ATCC 10231 | Bactericidal effectiveness (AFE) | 99,81% |