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THERMIX
RENOVATIONS

SFEROLIT®
LIQUID THERMAL INSULATION

APM FOIL® - a temporary, easy peel-off coating usedto protect non-porous surfaces. Protects againstdamage caused by scratches, abrasion,stains, waterstains and corrosion. Coating applied in a liquid formwhich when dry creates a strong, flexible andtransparent layer that will protect surfaces.

SFEROLIT® - is a liquid ceramic coating with specialproperties of thermal insulation and waterproofing. It isused as heat-insulating, anti-fungal, anti-corrosioncoating for internal and external walls, window jambs,roofs, floors, technical infrastructure of the building,pipelines, machinery and means of transport.

CE

NANOISOLATIONS | THERMAL INSULATION IN LIQUID | ECOLOGICAL SOLUTIONS

Protective foil **for painting**

MAIN ADVANTAGES OF APM FOIL®:

- water based,
- 100% biodegradable,
- easy to apply and transparent,
- easy cleaning of tools after application (water),
- chemical resistant - resistance to solvents and petroleum products,
- leaning properties (the protected surface does not require washing after removing the foil, APMFOIL® absorbs dust from underneath),
- reduction of construction costs (no need for surface cleaning),
- permanent protection against scratches and UV radiation,
- speed of application (no tedious wrapping with tapes and foils).

• BIODEGRADABLE • FAST SETTING
• EASY TO PEEL OFF • WATER-BASED

• SURFACE PROTECTION UP TO 24 MONTHS

PRODUCT DESCRIPTION:

Liquid protective film THERMIX APM FOIL® is a gel liquid which, when dry, forms a densepolymer film. Easily removable / peelable coating, used to temporarily protect surfaces fromminor damage, scratches and dirt. With its help, it is possible to protect almost any surfaceduring construction or renovation. It protects from dust, paint, cement and mechanicaldamage caused by welding spatter of metal filings and scratches. It is a liquid foil, whichallows you to simplify and speed up any construction work, and most importantly, reduce thecost of the preparatory process of construction and finishing works.

APM FOIL® is a liquid foil, which can be applied to surfaces by a roller, a brush or a spray gun. It is water-based, non-toxic and primarily biodegradable It protects the surface up to12 months, and even up to 24 (depending on the place of application and conditions). It adheres well to the substrate in the form of a strong transparent foil. It is easily removable without leaving any traces on the surface. It leaves a perfectly clean surface,does not require washing (saving on cleaning after renovation and construction works). APMFOIL® is a water-based emulsion coating that can be applied to coloured or unstained vertical or horizontal surfaces for temporary protection.

APPLICATION:

APPLICATION:.Glass facades, facade panels, windows, shop windows, doors, elevators, walls,handrails, furniture, bathroom and kitchen fittings, machine elements, polished-concrete, tiles and terracotta, new cars, buses, protection of machine parts duringstorage or transport, protection of coated metals during production or maintenance,protection of spray booths.

Refurbishment of apartments: painting and plastering works, finishing works, tiling. Temporary protection of ceramic and marble surfaces. Protection of the surface fromdamage, during construction and repair of yachts, protection of decorations, advertbanners and boards during fairs, can be used as transportation packaging andprotection of advertising products in transit. Protection against dirt, dust, oil, grease,rust and corrosion.

SFEROLIT®
LIQUID THERMAL INSULATION

THERMAL INSULATION
FOR PAINTING

Thermal conductivity λc 0,0025 W/mK

WHAT IS SFEROLIT®

SFEROLIT® - is a ceramic coating built of millionsof vacuum hollow particles,which, after applicationand drying, form a tight sealing membrane.Particle diameter from 20 to 120 microns.Theinsulating properties of this material are based onthe vacuum capacity to maintain the settemperature, limiting the passage of chilled orheated air particles from outside.

SFEROLIT® liquid thermal insulation is used in thebroadly understood construction industry (historic,residential, commercial, industrial, military), as wellas in the energy sector (pipelines, tanks, cisterns,machines and devices), as well as in various typesof transport (railway, sea, road, air and military).

MAIN ADVANTAGES OF SFEROLIT®:

- flexible
- flammability class B1
- absorbs vibrations
- protects against corrosion
- high adhesion
- lowers the cost of energy consumption
- minimises the effects of condensation
- vapor permeable (breathes)
- durable during operation
- eliminates 100% of thermal bridges
- protects against moisture, mould and fungi
- protects against weather conditions
- improves energy efficiency up to 50%
- increases sound insulation - min. 10%
- thermal conductivity λc 0.0025 W / mK
- ecological (harmless to health and the environment)
- operation temperatures of -50°C to + 150°C

CE

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PROPERTIES AND SPECIFICATION OF APM FOIL®

The physical state	Liquid
Colour	Clear, colourless
Smell	Characteristic
Boiling point, initial boiling point and boiling range	approx. 100°C
Flash point	Not applicable
Decomposition temperature	Not applicable
pH	5-7
Kinetic viscosity	20000-30000 mPa*s (dinamic, Brookfield RVF 6/20 23°C)
Density or relative density	1.09 g/cm3

SFEROLIT LIQUID THERMAL INSULATION

PROPERTIES AND SPECIFICATION OF SFEROLIT®

COATING ADHESION	UNIT	VALUE
for concrete surfaces	MPa	1.24
for concrete surfaces	MPa	1.98
for metal surfaces	MPa	above 1.0

FEATURE	UNIT	VALUE
Peel-off extensibility	%	min. 8.0
Elongation	%	65
Extensibility resistance afer application	MPa	2.0

TYPES OF MATERIALS TO BE APPLIED:

Marble, granite, glazed ceramic, glass, PVC,lacquered, oiled, laminated, vinyl and epoxy surfaces,aluminium, polished concrete, stainless steel, polycarbonateand most non-porous surfaces.

DRYING TIME:

With an application of approx.150 microns the coating willbe fully dry after about 60 minutes at room temperature.Forced drying and increased drying temperature up to amaximum of 40 ° C can be applied. Full hardening dependson the ambient temperature, humidity, ventilation and thethickness of the applied layer and takes from 0.5 to 24hours.

ACTION ON SFEROLIT®

REVOLUTIONARY NANOTECHNOLOGYIN ENERGY SAVING SYSTEMSHEAT AND SAFETY

Liquid thermal insulation as a result of polymerisationbecomes a permanent covering, reducing heat loss up to40%, it is impervious to water, and at the same time allowsthe surface to breathe freely. Vapor permeability, thanks towhich there is an intensive air exchange, additionally saves 7-9% of heat and protects against the development of fungi,mould, corrosion and other negative effects of theenvironment.

The material can expand by a quarter without interferingwith the adhesion to the surface. 1m2 of the coating canwithstand up to 380 ml of water / hour and dry quite quicklyafter rain. That is why SFEROLIT® is used as a finishingagent for insulating floors, ceilings, roofs, walls andinsulation of technical infrastructure inside and outside thebuilding.

CERTIFIED PRODUCTS BY ACCREDITED LABORATORIES IN THE EU:

AGH · Ecam Ricert · Łukasiewicz IMPiB · VEOLIA · ECM · Center for Testing and European Certification · Łukasiewicz Instytut Ceramiki i Materiałów Budowlanych

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