

N A N O T E C H N O L O G Y

MANUFACTURER

T H E R M A L I N S U L A T I N G C O A T I N G



NANOISOLATIONS
THERMAL INSULATING



WHAT IS SFEROLIT ?

SFEROLIT is a liquid ceramic coating with heat-insulating and water-protective properties. This is a microceramic filler, integrated into a mix of acrylic copolymers. It is used as an antifungal, anti-corrosion, anti-condensation thermal insulating coating for internal and external walls, heating systems, sewerage and water supply systems, window reveals, tanks and containers. The insulative properties of this material are based on the ability of a vacuum to keep a given temperature level by filtering cooled or heated air particles from the outside. The basis for SFEROLIT is millions of vacuum empty particles which form a leakproof membrane after applying and drying. The diameter of a particle is 20 to 120 microns.

SFEROLIT[®]
LIQUID THERMAL INSULATION



HOW DOES SFEROLIT WORK?

A REVOLUTIONARY NANOTECHNOLOGY IN SYSTEMS OF ENERGY CONSERVATION AND SAFETY IMPROVEMENT

Thermal insulation becomes a permanent coating, reducing heat losses by 70%, is not water-permeable, and facilitates the respiration of the surface. Water vapour permeability, thanks to which intensive air change occurs, additionally saves 7-9% of heat and provides protection against fungi, mould, corrosion and other negative environmental effects. The material can increase the volume by one-fourth, not disturbing adhesion to the surface. One square metre of the coating can hold up to 380 ml water per hour and dry quite quickly after the rain.

This is why SFEROLIT is used as a finishing agent for the insulation of walls, floors, elevations, external insulation of roofs, internal insulation of attics, insulation of houses, factory buildings, facilities for various purposes, as well as insulation in industry and transport.

The absolute advantage of such insulation is the technical parameters and the price of the thermo-modernization service, which allows you to save on labor costs, tools and completion time, and the return on investment may take place after the first heating season.

Such an insulation option has one more advantage over the other. In particular, when it is applied in the summer season, after some time, the agent will 'dry' moisture which penetrated the walls and canopies. Intensive air change will make it possible to transfer excessive moisture to the outside, boosting evaporation. When the works are executed in the summer season, this will become another factor that reduces power costs, allowing for cutting back on the artificial cooling of a room.

An absolute advantage of such insulation is its technical parameters and the price of thermal modernisation services, which allows for cutting back on the costs of work, equipment and the completion date. You can apply SFEROLIT yourself by a brush, paint roller or a paint gun.

T H E R M A L I N S U L A T I O N & S O U N D I N S U L A T I O N

TECHNICAL PROPERTIES

A REVOLUTIONARY NANOTECHNOLOGY IN SYSTEMS OF ENERGY CONSERVATION AND SAFETY IMPROVEMENT

THERMAL CONDUCTIVITY	λ 0,0012 - 0,0025 W/mK		PROTECTS FROM MOLD AND FUNGUS	VAPOR PERMEABLE
SRI - REFLECTION COEFFICIENT	114		IMPROVES ENERGY EFFICIENCY	UP TO 70%
THERMAL EMISSION	0,98		ELIMINATES CONDENSATE (DOES NOT CONDENSATE)	UP TO 100%
TSR - TOTAL SUN REFLECTION	89,5%		HIGH ADHESION (TRACTION)	DURABLE
MEETS STANDARDS	LEED		DOES NOT CHANGE ARCHITECTURE	HISTORICAL OBJECTS
FLAMMABILITY CLASS	B1		ABSORB VIBRATIONS	ELASTIC
INCREASES SOUND INSULATION	15% [minimum]		INCREASES BUOYANCY	MARITIME TRANSPORT
ELIMINATES THERMAL BRIDGES	100%		OPERATING TEMPERATURES	-60°C +600°C
NOT HARMFUL FOR HEALTH AND ENVIRONMENT	ECO		APPLY LAYERS	FROM 0,5 MM UP TO 4 MM
A WATER-BASED PRODUCT AND AEROGEL	ECO		INDOOR AND OUTDOOR APPLICATION	VARIOUS SECTORS
REDUCES EMISSIONS	CO2		PROTECTIVE ACTION AGAINST RUST	ANTI-CORROSIVE

T H E R M A L I N S U L A T I O N & S O U N D I N S U L A T I O N

TECHNICAL PROPERTIES

A REVOLUTIONARY NANOTECHNOLOGY IN SYSTEMS OF ENERGY CONSERVATION AND SAFETY IMPROVEMENT

The energy-saving properties of SFEROLIT have been conditioned with the ability to reflect radiation. This agent diffuses up to 85% of sunlight and over 90% of infrared radiation. Saving energy becomes possible thanks to endothermic processes in the membrane. The area of empty particles increases during the proces of drying, and the bubbles resulting from it reflect up to 25% of heat in the opposite direction as a result of filtering the air stream in the infrared spectrum. Therefore, the room insulated with SFEROLIT will be warm in winter and quite cool in summer. Thanks to properties which reflect the sun rays, the agent is long-lasting. SFEROLIT does not undergo any mechanical changes and no gaps appear on the surface. The coating does not fade under the influence of light. By default, the preparation is available in grey or white.

The energy-saving coating SFEROLIT consists of a special binding agent based on water, which includes millions of vacuum empty ceramic particles (bubbles) with a diameter of 20-120 microns.

After drying, a layer of SFEROLIT preparation becomes a solid, resilient and dampproof structure as a result of polimerisation, with a thickness from 1 to 3 mm (membrane). The specific properies of the membrane ensure saving energy. Saving energy for heating and cooling the building is achieved thanks to increasing the area and as a result of endothermic processes in the thermoceramic membrane.

ADHESION - average 1.6 N/mm² ENVIRONMENTAL CONDITIONS t = 21°C, RH = 55%

COATING ADHESION	U.M.	SIZE
TO CONCRETE	MPa	1.24
TO BRICK	MPa	1.98
TO STEEL	MPa	not less than 1.0

INDICATOR NAME	U.M.	SIZE
EXTENSIBILITY AT BREAK	%	at least 8.0
LINEAR ELONGATION	%	65
TENACITY AFTER APPLICATION	MPa	2.0

TYPES OF SFEROLIT

A REVOLUTIONARY NANOTECHNOLOGY IN SYSTEMS OF ENERGY CONSERVATION AND SAFETY IMPROVEMENT

TYPE	NAME	OPERATING TEMP. °C	SECTORS	THERMAL CONDUCTIVITY	TYPES OF APPLIED SURFACE	COLORS
SFEROLIT APM 100	Thermal insulating emulsion with increased resistance to mechanical damage. Application in every sector, from historic construction to industry and means of transport, reducing heat loss by up to 60%. Application thicknesses from 1mm to 4mm (wet layer).	-50°C +150°C	construction, industry, automotive	λ 0,0025	stone, concrete, brick, wood, metal, plastic	light gray (concrete color)
SFEROLIT APM 120	Flexible, white thermal insulation used mainly in the industry for steel, plastics and in modular construction, e.g. for OSB boards. Insulation with better properties of absorbing vibrations and sounds. It reduces temperatures up to 70%. Application thicknesses from 0.5mm to 4mm (wet layer).	-40°C +120°C	industry, automotive	λ 0,0012	metal, plastic, wood	white
SFEROLIT APM FACADE	Snow-white thermal insulation with the best thermal and acoustic insulation parameters from a whole range of products for the construction industry. A satin coating, perfect for interior walls as a final effect. Application thicknesses from 1mm to 4mm (wet layer).	-60°C +120°C	construction	λ 0,0012	concrete, brick, wood	white
SFEROLIT APM 250	Thermal insulation mainly used in the energy sector to insulate pipes and tanks as well as industrial, reducing temperature losses by up to 70%. Application thicknesses from 0.5mm to 4mm (wet layer).	-40°C +260°C	industry, automotive	λ 0,0012	metal, plastic	white
SFEROLIT APM 300	Thermal insulation mainly used in the energy sector to insulate pipes and tanks, and industrial for devices generating temperatures up to 300°C, reducing temperature losses by up to 70%. Application thicknesses from 0.5mm to 4mm (wet layer).	-40°C +300°C	industry, automotive	λ 0,0012	metal	white
SFEROLIT APM 450	Thermal insulation mainly used in the energy sector to insulate pipes and tanks, and heavy industry devices generating temperatures up to 450°C, reducing temperature losses by up to 70%. Application thicknesses from 0.5mm to 4mm (wet layer).	-40°C +450°C	industry, automotive	λ 0,0012	metal	white
SFEROLIT APM 600	Thermal insulation mainly used in the energy sector for insulation and heavy industry e.g. for furnaces, reducing temperature losses by up to 70%. Application thicknesses from 0.5mm to 4mm (wet layer).	-40°C +600°C	industry, automotive	λ 0,0012	metal	white

TESTS, ATTESTS, CERTIFICATES

A REVOLUTIONARY NANOTECHNOLOGY IN SYSTEMS OF ENERGY CONSERVATION AND SAFETY IMPROVEMENT

Ministerstwo
Środowiska

WE HAVE TO FIND OUT:

- THERMAL CONDUCTIVITY [W / mK]
- REFLECTION ATTESTS
- FLAMMABILITY CLASS APPROVALS
- HYGIENE CERTIFICATES
- ADHESION CERTIFICATES
- VAPOR PERMEABILITY CERTIFICATES
- WATER RESISTANCE CERTIFICATES
- PRE-ISOLATED SYSTEM APPROVALS
- DECLARATIONS OF PERFORMANCE
- PRODUCT CARDS
- CHARACTERISTICS CARDS
- REFERENCE
- REPORTS FROM TESTING THE LIMITATIONS OF CO2 EMISSIONS



INDUSTRIAL SECTOR

SFEROLIT
LIQUID THERMAL INSULATION

NANOISOLATIONS
THERMAL INSULATING

ATENA
NANOISOLATIONS
WWW.ATENAPM.PL

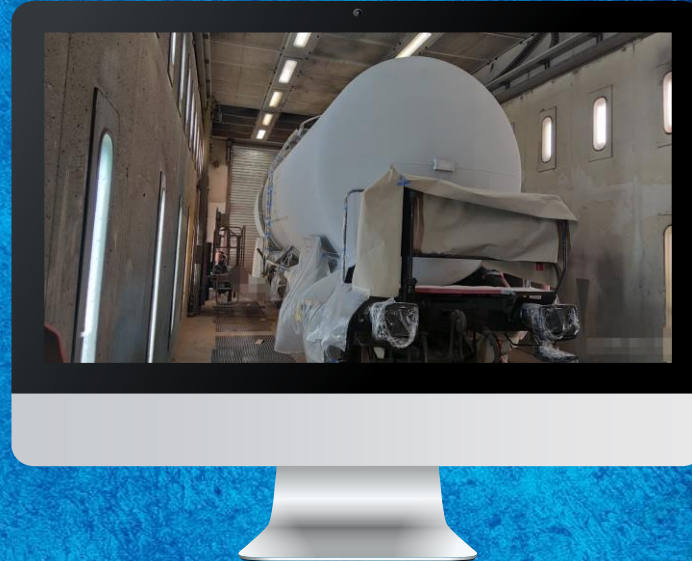
THERMAL INSULATION OF SFEROLIT - APPLICATION

A REVOLUTIONARY NANOTECHNOLOGY IN SYSTEMS OF ENERGY CONSERVATION AND SAFETY IMPROVEMENT



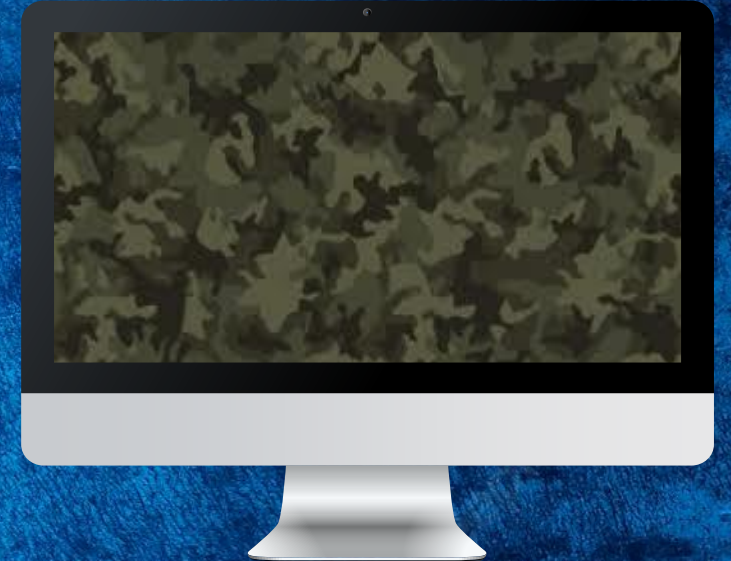
INDUSTRIAL SECTOR:

- refineries, fuel warehouses,
- combined heat and power plants, heating plants,
- heavy industry (steel mills, mines, etc.),
- production plants, production lines,
- building infrastructure: central heating, water and sewage, gas.



TRANSPORT:

- rail (passenger and freight),
- containers, cisterns,
- marine, inland,
- road (buses and electric cars),
- aeronautical, space.



MILITARY:

- military and tactical vehicles, military buildings,
- bunkers, halls, shelters, military containers,
- machines and devices,
- protection of industrial equipment and machinery,
- building infrastructure: central heating, hot water, water and sewage, gas.

SFEROLIT IN THE NUCLEAR SECTOR



Ministry of Climate
and Environment



Ministerstwo
Klimatu i Środowiska

The Ministry of Climate, Department of Nuclear Energy describes our reference investment on the government portal GOV.PL – thermal modernization carried out in Pripjat, Chernobyl Nuclear Power Plant in Ukraine. SFEROLIT technology has passed the most restrictive tests and analyzes before the investment is carried out by a consortium led by the French corporation VICI CONSTRUCTION. SFEROLIT was applied a few mm on the surface of several thousand square meters of concrete above the sarcophagus.



DESCRIPTION: [https://www.gov.pl/web/polski-atom/polskie-przedsiębiorstwa-wchodzą-w-coraz-bardziej-zaawansowane-obszary-](https://www.gov.pl/web/polski-atom/polskie-przedsiębiorstwa-wchodzą-w-coraz-bardziej-zaawansowane-obszary-sektora-jadrowego)

sektora-jadrowego



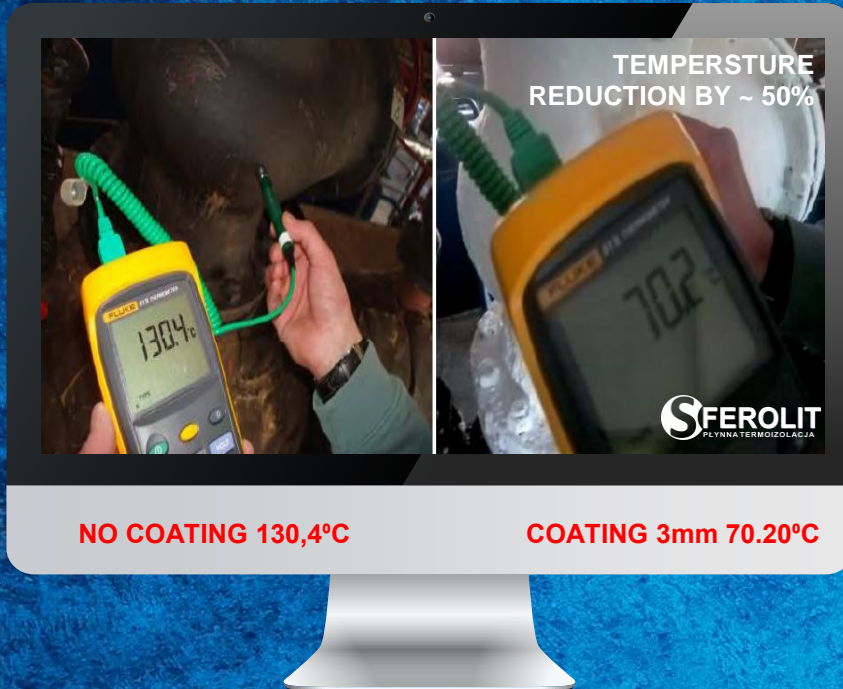
www.atenapm.pl | biuro@atenapm.pl

The Ministry of Climate and Environmental Protection, Department of Nuclear Energy have prepared a new catalog entitled "Polish industry for nuclear energy, edition 2021". This is the third edition of the document identifying companies with competences and experience in the field of nuclear energy. The document was prepared on the basis of a comprehensive analysis of Polish industry carried out by the Ministry of Climate and Environment in close cooperation with the local industry. The ATENA company has also been entered into this catalog and available on the website of the Ministry (page 39).

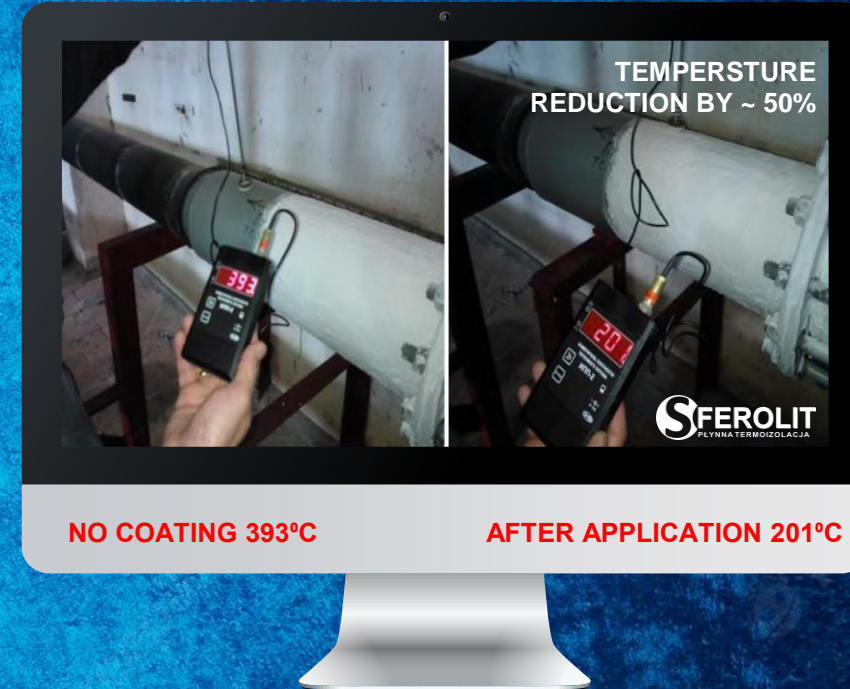


THERMAL INSULATION IN THE HEATING SECTOR

A REVOLUTIONARY NANOTECHNOLOGY IN SYSTEMS OF ENERGY CONSERVATION AND SAFETY IMPROVEMENT



During the application of SFEROLIT APM120, the pipe surface temperature was 130 ° C. Application by spraying the diluted preparation until completely dry (bubble cession) followed by simple spray application to obtain the desired total thickness (~ 3mm) and temperature of 70 ° C



The image above shows a measurement of the heat flux density of a coated and uncoated section of the same pipe. 1mm thick coating, 63 ° C substrate, ~ 50% reduction in heat flux density. Other tests have shown as much as 90% reduction in heat flux (the rate of heat flow through the coating) by 90% for a thickness of 1 mm.

THERMAL INSULATION IN THE HEATING SECTOR

A REVOLUTIONARY NANOTECHNOLOGY IN SYSTEMS OF ENERGY CONSERVATION AND SAFETY IMPROVEMENT



Hardening furnaces in the automotive industry. During the application of SFEROLIT APM100 / APM120, the furnace surface temperature was over 80°C. Spray-applied coating up to 3mm thick, reduced heat loss on the furnace by 50% and generated energy savings of approximately 15% per year.



Rail containers for sugar - rail transport. The containers were painted with SFEROLIT APM100 to eliminate condensation. During loading and transport, it condenses inside the container, causing losses in the form of caked sugar. The reason for this is the large temperature differences inside the container during loading and outside, as ambient temperatures can even be in the negative. After the application of the 3mm coating, there is no condensation.

APPLICATION FOR HIGH TEMPERATURE

Ministerstwo
Klimatu i Środowiska

A REVOLUTIONARY NANOTECHNOLOGY IN SYSTEMS OF ENERGY CONSERVATION AND SAFETY IMPROVEMENT

The energy sector, in particular heat and power plants, mines, industrial plants, during the modernization of heating pipelines, furnaces or boilers, are exposed to large economic losses due to the shutdown of part or all of the heating line. The SFEROLIT technology is an innovative solution allowing for thermal modernization during an actively operated heating network. During the application it is not necessary to switch off the power line for modernization.

The SFEROLIT technology allows for application to heated surfaces at temperatures up to 90 ° C, which means that combined heat and power plants or industrial plants do not lose millions of losses per month during downtime. In the case of application around 90 ° C, the product should be diluted in the range of 40-50% with clean water or distilled / demineralized water and applied in thin layers until the bubbles stop (bubbles) and the temperature cools - then it is used as a base layer. After the coating is dry and fully cured, you can proceed to regular application to the desired thickness in order to achieve the desired effect.

HIGH TIME SAVING - MINIMIZED RISK OF ECONOMIC LOSS - ECOLOGICAL SOLUTION



APPLICATION FOR MINUS TEMPERATURES

A REVOLUTIONARY NANOTECHNOLOGY IN SYSTEMS OF ENERGY CONSERVATION AND SAFETY IMPROVEMENT

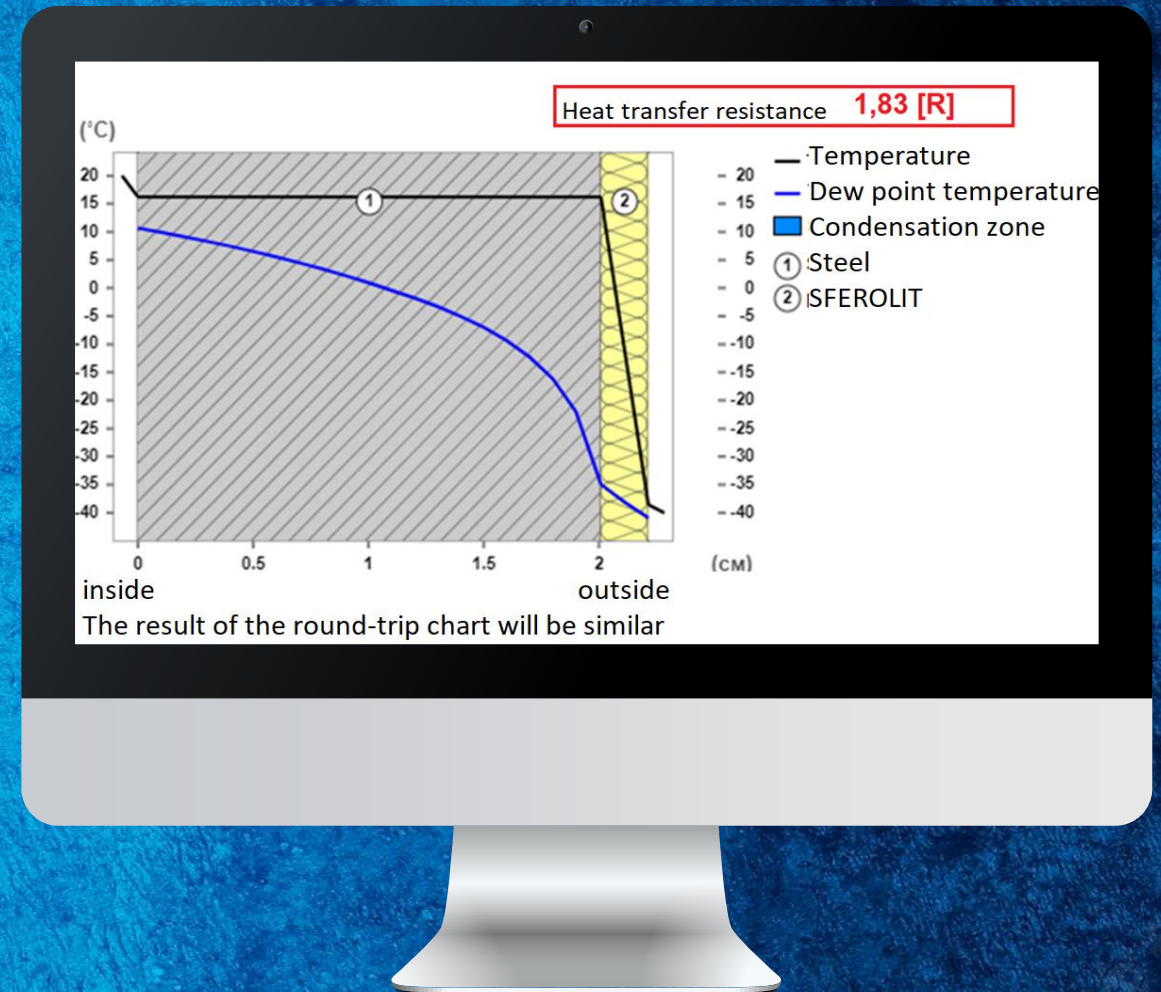
Ministerstwo
Klimatu i Środowiska

INSULATION OF STEEL TANK TRANSPORTING GAS AT TEMP. -40°C

BY USING 4mm OF THE INSULATION OF SFEROLIT APM100, YOU WILL ACHIEVE:

- ✓ Capacity -40°C PL_20/5/2021
- ✓ Steel - approx.: λ 58
- ✓ Thermal insulation paint ATENA PM: λ_{obl} 0.001, (R_n) 0.02
- ✓ Outside 20°C , Humidity 55%
- ✓ Inside -40°C , Humidity 80%

No	THICKNESS	Material	W/mK	R	Tmax
1	20 mm	STEEL	58	0,00	-40°C
2	2 mm	SFEROLIT APM120	0,0012	1,67	



QUICK RETURN INVESTMENT

A REVOLUTIONARY NANOTECHNOLOGY IN SYSTEMS OF ENERGY CONSERVATION AND SAFETY IMPROVEMENT

Ministerstwo
Klimatu i Środowiska

On the example of the company "SenerTec, Kraft-Wärme-Energiesysteme GmbH & DACHS Polska sp. Z o.o." - producer of cogeneration furnaces.

The use of SFEROLIT emulsion to protect the buffer tank - in the case of using the emulsion as thermal insulation protection in heating, small-size / local or individual, the recovery time of thermal insulation costs from the use of SFEROLIT emulsion is short and amounts to several weeks. An example investment of the Syntex company - auditor of the DACHS & SENERTEC Corporation - producer of cogeneration furnaces, where, for example, a thermal modernization of a 3000L tank was performed. It was found for averaged measurement conditions at a supply temperature of 65°C and a heating medium return of 50°C and a flow of 30L / s in a thermal node of a propane-based micro-cogeneration boiler house and an ambient temperature of 25.4°C that the primary energy expenditure for heat generation after the application of 4 layers of SFEROLIT emulsion decreased by 14.46 %

Percentage of the return on capital invested in the application of modern Sferolit thermal insulation, the return in the first season is 37.76%. The payback time for thermal insulation from the use of Sferolit emulsion is 56.99 days in the first season. The calculations assume the simplification that 1L of water equals 1 kg, and that 1.1638Wh is needed to increase the temperature of 1 liter of water by 1°C. For 3040L loading of the buffer tank for the needs of DHW at the initial water temperature of 8.4°C and bringing the water temperature to 65°C in the tank and the ambient temperature of the tank 25.4°C, this corresponds to energy loss X over a period of 1 hour.

The energy loss in period X in the reservoir was:

- a) before covering the tank with Sferolit thermal insulation - 35.264 kWh,
- b) after covering the tank with Sferolit thermal insulation in 4 layers - 30,147 kWh,



the amount of energy / fuel saved during 1h in the DHW node is 5.099 kWh

BUILDING

SECTOR

SFEROLIT[®]
LIQUID THERMAL INSULATION

NANOISOLATIONS
THERMAL INSULATING

ATENA
NANOISOLATIONS
WWW.ATENAPM.PL

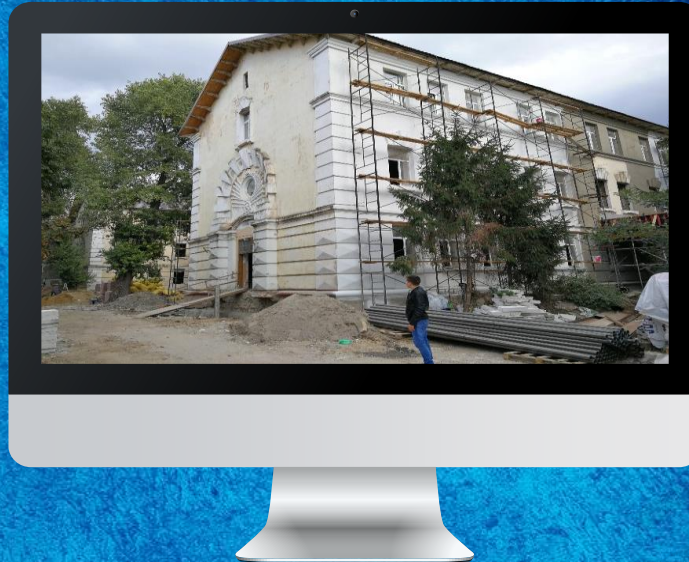
THERMAL INSULATION OF SFEROLIT - APPLICATION

A REVOLUTIONARY NANOTECHNOLOGY IN SYSTEMS OF ENERGY CONSERVATION AND SAFETY IMPROVEMENT



CONSTRUCTION:

- residential buildings (single and multi-family),
- industrial buildings (food, farm and other sectors),
- industrial buildings (warehouses, terminals),
- commercial and public utility buildings,
- tunnels, subways, bridges,
- building infrastructure: central heating, water and sewage, gas.



HISTORICAL AND CHURCH BUILDINGS:

- palaces, castles, residential buildings,
- churches, monasteries,
- grottoes, catacombs, archives,
- internal and external stucco,
- building infrastructure: central heating, hot water, water and sewage, gas.



AGRICULTURE

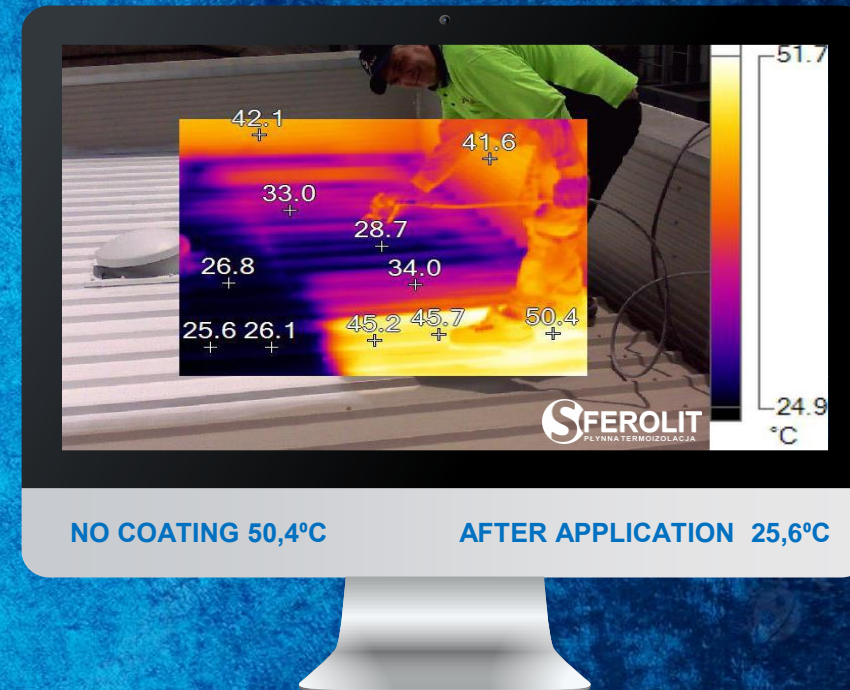
- granaries, storage in the congregation and fodder,
- poultry farms, utility rooms,
- protection of industrial equipment and machinery,
- cold stores, freezers,
- building infrastructure: central heating, hot water, water and sewage, gas.

EXAMPLE OF INSULATION IN CONSTRUCTION

A REVOLUTIONARY NANOTECHNOLOGY IN SYSTEMS OF ENERGY CONSERVATION AND SAFETY IMPROVEMENT



During the application of SFEROLIT APM120, the surface temperature of the steel roof was ~ 50 ° C. Spray application of the SFEROLIT preparation (~ 2 mm) was reduced to a temperature of 25 ° C



The thermal imaging camera shows the highest temperatures without the SFEROLIT thermal insulation 50.4 ° C and the temperature reduced by 50% when the roof is painted twice and the roof thermal insulation is 2 mm thick.

HOW TO USE THE NANOPREPARATION

1

Before applying the liquid mix it thoroughly with an agitator at medium speed until smooth, homogenous consistency is obtained.

2

Next, apply SFEROLIT on a clean, grounded area with a brush, roller or paint gun.

3

The quality, homogeneity and functioning of the cover is ensured by applying 2 layers of SFEROLIT on the insulated area (you can add water in the amount not exceeding 100ml per 1 litre of the preparation – proportions 1:10).



PROPERTIES DURING APPLICATION:

Performance in one layer is 0.8 – 1.0 l / m², depending on the quality of the prepared area and the manner of application. The drying time of an applied layer with a thickness up to 1 mm, with a temperature level of +20°C and relative moisture up to 60% is 3 hours. The coating should be applied when the air temperature is +5 to +35°C.

The maximum thickness of each applied layer should not exceed 1 mm. Next layers should be applied not sooner than after the complete drying of each previously applied layer.

POLAND



KUWAIT



SULTANE of OMAN



PORTUGAL



MOROCCO



SOUTH AFRICA



UNITED ARAB EMIRATES



SAUDI ARABIA



BAHRAIN



UNITED KINGDOM



BELGIUM



UKRAINE



INDIA



IRAQ



FRANCE



SFEROLIT IN THE WORLD

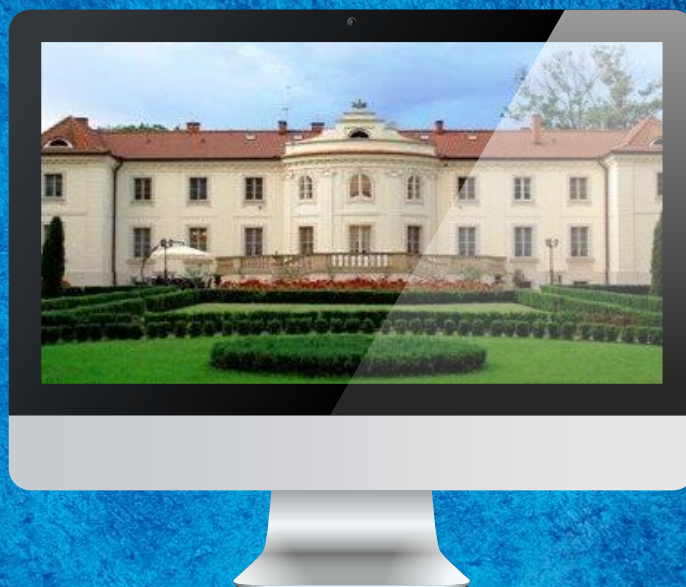


REALIZED EXAMPLE INVESTMENTS

A REVOLUTIONARY NANOTECHNOLOGY IN SYSTEMS OF ENERGY CONSERVATION AND SAFETY IMPROVEMENT



THE CHURCH OF THE PALLOTINES IN
CZĘSTOCHOWA.
INTERNAL THERMOMODERNIZATION
BUILDING



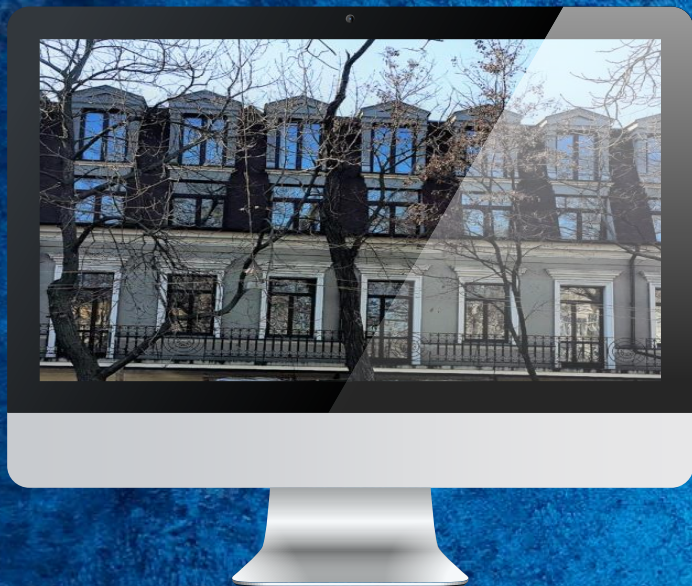
PALACE IN GÓRZNO NEAR KALISZ.
INTERNAL THERMOMODERNIZATION
BUILDING



GDAŃSKA SHIPYARD S.A.
INTERNAL THERMOMODERNIZATION
BUILDING

REALIZED EXAMPLE INVESTMENTS

A REVOLUTIONARY NANOTECHNOLOGY IN SYSTEMS OF ENERGY CONSERVATION AND SAFETY IMPROVEMENT



HOTEL FACILITY, ODESSA, UKRAINE.
THERMOMODERNIZATION OUTSIDE THE
BUILDING



SCHOOL, CHARKÓW, UKRAINE.
THERMOMODERNIZATION OUTSIDE THE
BUILDING



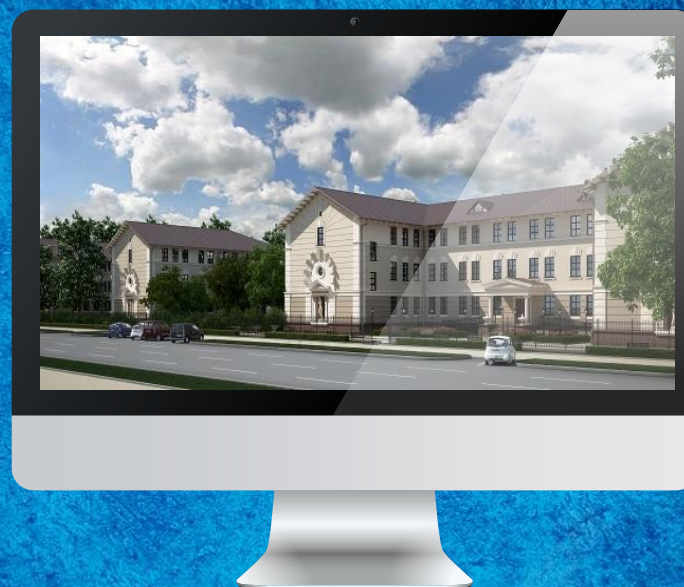
GREEN WOOD APARTMENT HOUSE
ODESSA, UKRAINE.
THERMOMODERNIZATION OUTSIDE THE
BUILDING

REALIZED EXAMPLE INVESTMENTS

A REVOLUTIONARY NANOTECHNOLOGY IN SYSTEMS OF ENERGY CONSERVATION AND SAFETY IMPROVEMENT



RESIDENTIAL ARKADIA ODESSA,
UKRAINE.
THERMOMODERNIZATION OF THE
BUILDING



HISTORICAL OBJECT, COURT OF
APPEAL ODESSA, UKRAINE.
THERMOMODERNIZATION OUTSIDE THE
BUILDING



SEA CONTAINERS GDAŃSK, POLAND
INTERNAL THERMOMODERNIZATION
AND EXTERNAL

REALIZED EXAMPLE INVESTMENTS

A REVOLUTIONARY NANOTECHNOLOGY IN SYSTEMS OF ENERGY CONSERVATION AND SAFETY IMPROVEMENT



PRODUCTION PLANT IN THE EU, FOOD SECTOR
THERMAL INSULATION OF EQUIPMENT
TEMP REDUCTION FROM 120°C TO 60°C
INCREASE OHS
CONDENSATE ELIMINATION



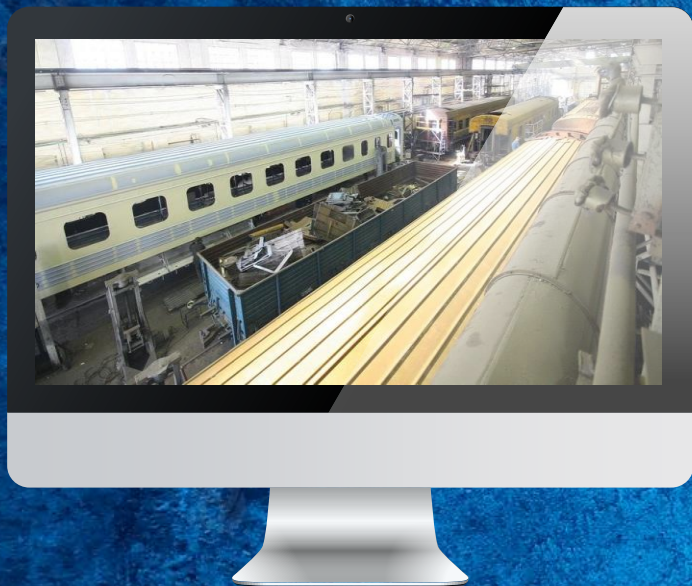
PRODUCTION PLANT IN THE EU,
PRODUCTION OF PARAFFIN THERMAL
INSULATION OF EQUIPMENT
IMPROVING THE EFFICIENCY OF
EQUIPMENT REDUCING CONDENSATE



PRODUCTION PLANT IN THE EU,
THERMAL INSULATION OF THE FACILITY
INCREASING THE COMFORT OF WORK
ACOUSTIC INSULATION
INSULATION BEFORE HIGH TEMP.

REALIZED EXAMPLE INVESTMENTS

A REVOLUTIONARY NANOTECHNOLOGY IN SYSTEMS OF ENERGY CONSERVATION AND SAFETY IMPROVEMENT



COMPANY PJSC DNEPROVAGONREMSTROY
THERMOMODERNIZATION OF PASSENGER
WAGONS. INSULATION IN 270
PASSENGER CARS. 140,000L USED
DURING THE APPLICATION



CHERNOBYL NUCLEAR POWER PLANT,
UKRAINE THERMAL INSULATION OF
SARCOPHAGE CONDENSATE ELIMINATION
THERMAL INSULATION OF A FEW
THOUSAND. M2 POW. CONCRETE ABOVE
THE REACTOR

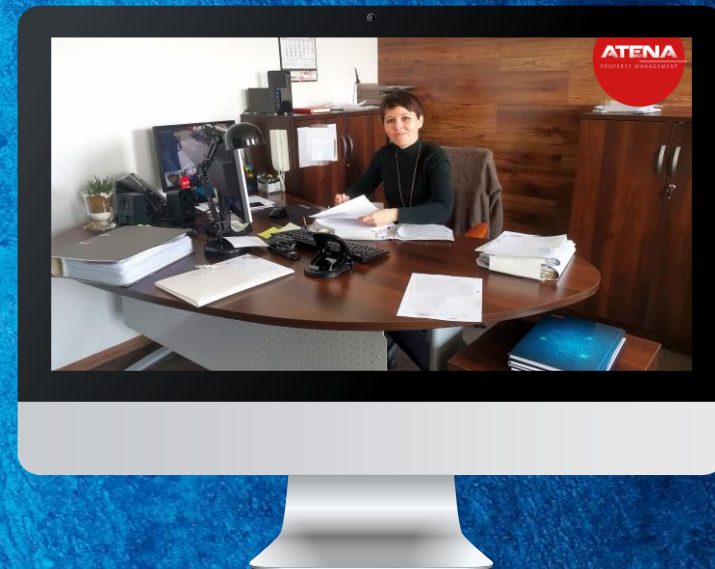
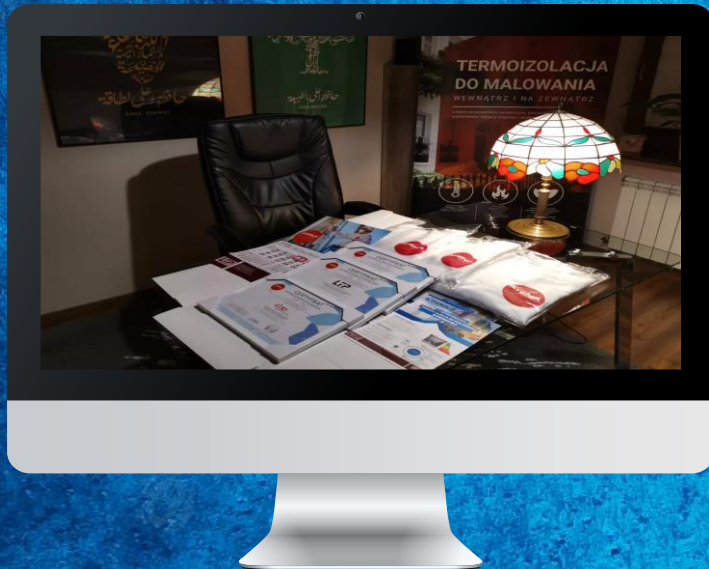


INSULATION OF BUSES, COOLING
INSULATION INSIDE REDUCTION OF
ENERGY CONSUMPTION ACOUSTIC
INSULATION INCREASING EQUIPMENT
PERFORMANCE

ATENA PROPERTY MANAGEMENT SP. Z O. O.

A COMPANY WITH AN INNOVATIVE APPROACH TO NANOTECHNOLOGY AND FUTURE TECHNOLOGY SOLUTIONS

ATENA PROPERTY MANAGEMENT SP. Z O. O. IS A MANUFACTURER OF THERMAL, FIREPROOF, ACOUSTIC AND PROTECTIVE NANO-INSULATIONS. WE IMPLEMENT PRODUCT AND SERVICE INNOVATIONS ON A EUROPEAN AND GLOBAL SCALE, ENSURING TRUST AND LONG-TERM COOPERATION AMONG OUR CUSTOMERS. ATENA, IS A TEAM OF EXPERIENCED PROFESSIONALS WITH A WEALTH OF EXPERIENCE AND AN OPEN MIND FOR INNOVATION. BY CREATING NEW TECHNOLOGY, WE CREATE NEW QUALITY. CURRENTLY, WE ARE THE LEADER IN POLAND IN THE PRODUCTION OF LIQUID NANO-INSULATION AND ONE OF THE LEADING MANUFACTURERS OF THIS TECHNOLOGY WORLDWIDE. ATENA NANO-INSULATIONS HAVE BECOME SO RECOGNISABLE ON THE EUROPEAN MARKET THAT WE CAN BOAST OF NUMEROUS AND PRESTIGIOUS PROJECTS CARRIED OUT BY OUR CUSTOMERS. OUR INSULATIONS ARE USED IN ALMOST EVERY INDUSTRY FROM CONSTRUCTION, INDUSTRY, TO MARINE, RAIL OR ROAD TRANSPORT.

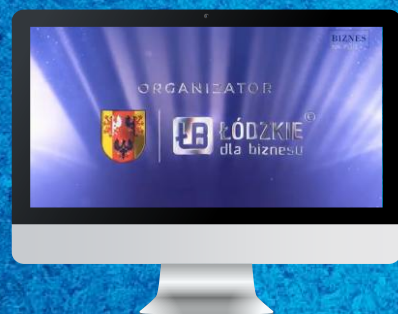


SFEROLIT – AWARDS, TRAINING

A REVOLUTIONARY NANOTECHNOLOGY IN SYSTEMS OF ENERGY CONSERVATION AND SAFETY IMPROVEMENT



- ❑ WE HAVE RECEIVED NUMEROUS DISTINCTIONS AND PRIZES FROM THE ŁÓDZ MARSHAL'S OFFICE, including FOR TECHNOLOGICAL INNOVATION IN THE ŁÓDZKIE VOIVODSHIP,
- ❑ SFEROLIT ENTERED IN THE NUCLEAR CATALOG AND PROMOTED BY THE MINISTRY OF CLIMATE AND ENVIRONMENTAL PROTECTION, NUCLEAR DEPARTMENT,
- ❑ WE HAVE NUMEROUS PUBLICATIONS IN BRANCH JOURNALS,
- ❑ WE ARE ACTIVE IN LARGE INTERNATIONAL HUMANITARIAN AID PROJECTS,
- ❑ WE ACTIVELY COOPERATE WITH INSTITUTES IN EUROPE TO DEVELOP TECHNOLOGY TO REDUCE CO2 EMISSIONS IN THE WORLD.



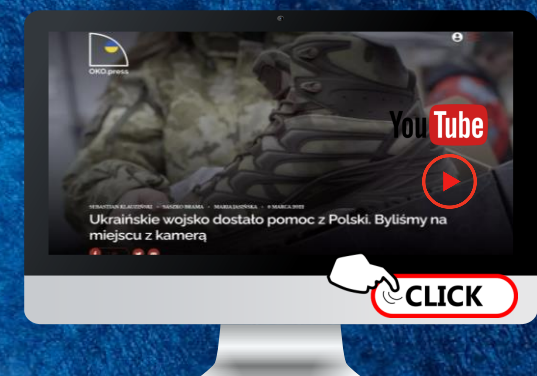
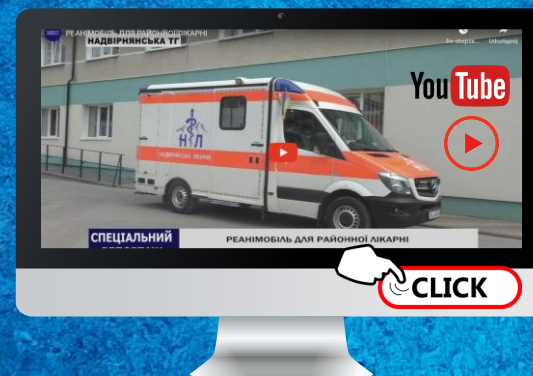
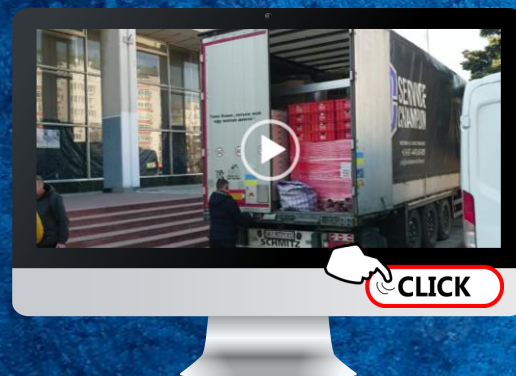
ATENA – WE SUPPORT UKRAINE

ATENA IS ACTIVE IN VARIOUS ORGANISATIONS AND FOUNDATIONS IN EUROPE

Solidarni
z Ukrainą



- WORKING WITH A NUMBER OF UKRAINIAN ORGANISATIONS AND GOVERNMENT INSTITUTIONS, WE PROVIDE HUMANITARIAN SUPPORT TO CIVILIANS AND THE UKRAINIAN MILITARY,
- WE HAVE HELPED DELIVER THROUGHOUT UKRAINE (INCLUDING TO THE FRONT), AT LEAST 70 TRUCKLOADS OF MEDICINES, CLOTHING, FOOD, MEDICAL EQUIPMENT AND TOOLS TO THE UKRAINIAN ARMY,
- WE HELPED DELIVER MEDICAL AMBULANCES FROM POLAND AND THE UK TO ODESSA AND IVANO-FRANKIVSK,
- WE HELPED LARGE GROUPS OF DISABLED PEOPLE GET OUT OF THE UKRAINIAN FRONTLINE TO SWEDEN, POLAND, SPAIN.
- PART OF ATHENA'S ASSISTANCE WAS PRESENTED IN THE MEDIA: OKO PRESS, NADVIRNATV, WEST-INFO.IF.UA



ATENA – WE HELP NGO ORGANISATIONS

ATENA IS ACTIVE IN VARIOUS ORGANISATIONS AND FOUNDATIONS AND WE SUPPORT UKRAINE

- WE HAVE RECEIVED NUMEROUS DIPLOMAS, ORDERS, ACKNOWLEDGEMENTS FOR OUR INVOLVEMENT IN HUMANITARIAN AID TO UKRAINE FROM MANY GOVERNMENT INSTITUTIONS, ORGANISATIONS, FOUNDATIONS IN UKRAINE,
- WE PROVIDE CHARITABLE SUPPORT TO FOUNDATIONS WITH DISABILITIES IN POLAND AND UKRAINE,
- WE SUPPORT YOUNG ATHLETES.





C O N T A C T

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MANUFACTURER OF NANOISOLATIONS



NANOISOLATIONS
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W E I N V I T E Y O U T O C O O P E R A T I O N