

POLIURETAN® SPRAY S-35RGB/ECO

POLAND

DESCRIPTION

Application Synthesia Technology polyurethane foam as insulation in modular buildings.

System used: Poliuretano® Spray S-35RGB / ECO

Place of application: province mazowieckie

Implementation time: 1 day (foam application)

Since 2014 company Fleximil sp.z o.o. has been involved in the construction of modular objects, which are created on the basis of sea containers. As the manufacturer assures, the adaptation of sea containers is a narrow and very original niche in construction. Its offer includes ready and tested solutions, although the majority of the project are individual, turnkey projects, which is the client's idea. The limitation of the shape of the sea container in no way limits the finished building and arrangement options.



It is worth mentioning at the outset that this is a building other than a construction container, which is a mass product. The Fleximil company finalizes several projects a year. The average construction time for one facility is approximately 1000 man-hours.



"We specialize in the adaptation of sea containers. Over the years, through the implementation of many projects, we have gained knowledge and skills that translate into the high quality of our implementation and tailoring to the needs of each client "- said Szymon, the owner of the company

How does the construction of such a building look like? In the first stage, glazing and communication spaces are cut into containers. Then, thermal insulation of walls, ceilings and floors is made. The insulating material in sheets and rolls did not fulfill its role, because despite the fastening used it detached during transport. The polyurethane foam from Synthesia Technology fits perfectly in its place.

Advantages of foundation insulation with Poliuretana Spray S-35RGB/ECO foam:

- no need for dowels, fixing, foam adheres perfectly to the ground
- foam retains its shape and adhesion even when transporting a building continuously
- S-35RGB / ECO system gives the structure additional rigidity and strength
- in the event of unplanned flooding, the system retains its parameters and shape
- the product has a positive National Institute of Public Health opinion
- does not require protection against mechanical damage
- the best material available on the market with high thermal resistance (lower insulation thickness)
- allows you to reduce the cost of heating and air conditioning of the building by eliminating heat loss
- no welds and technological connections (there will be no thermal bridges)
- instant application



After the application of polyurethane foam with the structure of closed cells, works are carried out: assembly of frames, installations, glazing, walls made of plasterboards. The order of layers and the choice of tested materials makes the building fully mobile. Despite the transport, transfer by crane, there are no cracks inside the object.

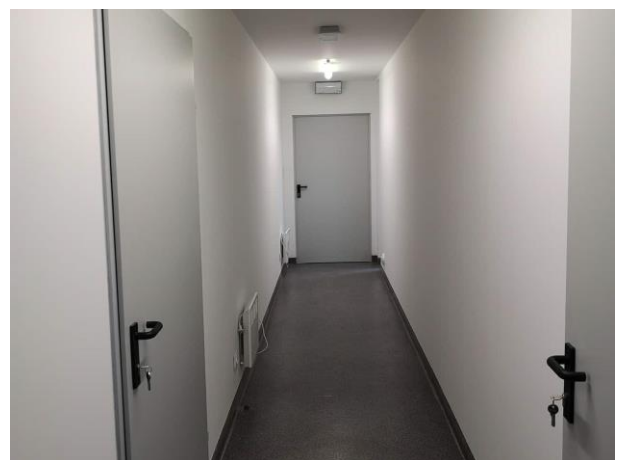


"Thermal insulation is our strength, that's why we recommend electric heating, mechanical ventilation, heating and air conditioning" - Szymon, owner.

When the walls, floor and ceiling are ready, finishing works are carried out: laying tiles or floor panels, painting. The last step is furnishing the object according to the project. The building is ready for transport and assembly at the customer's



The building core is always the same and it is a sea container and closed cell polyurethane foam. Both are very durable. The Corten steel container used in maritime transport withstands about a quarter century in extreme salinity. New containers are used in Fleximil projects, which are additionally protected against corrosion, all to extend the life of the building. It is no different with polyurethane foam. If the product is protected against UV radiation, it may outperform its structural system (e.g. roofing). Under normal conditions of use, durability over 50 years can be expected.



It is worth emphasizing the ecological dimension of the whole idea. Some projects use used containers, i.e. reused product (recycling). The foam used Synthesia Technology S-35RGB / ECO is foamed with a new safe HFO blowing agent, which has a GWP ratio of 1%, which is 99% less than in the case of systems foamed with HFC blowing agent. HFO line products do not damage the ozone layer.

Each object has good thermal insulation based on polyurethane foam, thanks to which it allows to reduce energy demand (heating, air conditioning).



Advantages of Synthesia Technology products:

1. The components are clean, they do not clog the filters, the foam structure is compact, homogeneous in one cross-section, has no skin cracks at large thicknesses
2. It is easy to control with large showers (it has easy to lay in one layer)
3. It is odorless, physiologically neutral, environmentally friendly
4. Has high performance from one set
5. Each product is manufactured in accordance with ISO 9001, and has CE
6. Systems have winter and summer formations to optimize the final product.

Link to the system provider's website: www.synte.pl

Link to the profile on Facebook: www.facebook.com/synthesiapolska

Link to the service provider's website: www.flexicube.pl