

REFERENCE PROJECT 05/2020/001



EKOSPRAY© INSULATION –
sustainable and most effective solution in the
market!



KEY FACTS

Contractor: Suomen Polyureakatot Oy

Used product: Ekospray©

Sprayed area in square meters: Vapor barrier area: 560m². Insulation area 850m².

Thickness of the sprayed layer: Vapor barrier are: 45mm's. Insulation area 240mm's, achieved U-value 0,025W/m²K.

Bang & Bonsomer

Bang & Bonsomer's strategic approach is to **offer smart material technologies** to our customers. Smart material technologies are a combination of distribution, own products, smart process technology solutions, services

and own application laboratories/technical centers. We strive to be known as an **innovative material technology company with knowledge and heritage dating back to 1927.**

Suomen Polyureakatot Oy

Founded in 2015, this is a company **specializing in polyurea coatings**. Quality has always been paramount in all contracting. Suomen Polyureakatot use only **modern products** that have been tested to be the most durable and long lasting.

'The company guarantees that after their work, the required film strengths will be found in the coating site, the work **will be in accordance with the prevailing weather conditions and with the materials best suited to the site.**

Ekospray©

Ekospray© polyurethane foam has many outstanding properties that make it the **most effective insulation material on the market.**

Ekospray© is the professional's choice for many reasons:

1. It forms a completely **compact insulation layer**
2. The insulation layer is **seamless and solid**
3. It serves as a **vapor barrier**
4. **It does not mildew**
5. **It does not rot**
6. **It does not impair mobile phone traffic** because spray polyurethane insulation does not contain aluminum film
7. The insulation **thickness is scaled** according to the specific requirements and application
8. It has a **long life** - Ekospray©'s life can be over **100 years**
9. **Insulation performance and form are preserved** without change year after year
10. **It is environmentally friendly:** PU insulation saves on energy throughout the life cycle of the building. Dispensable insulation material can be recycled or burned, and in this way re-used as energy.





Were there any other options available?

Ekospray® was chosen because the base of the insulation site was too uneven for plate insulation. If plate insulation had been used, the whole area would have to have been

levelled and insulating it would have taken considerably more time than insulation with Ekospray. **With Ekospray®, even the most challenging spots in the structure were insulated tightly.**

Was any special base work or other actions required before insulation?

Before insulation the base of the site had to be cleared of loose particles. Due to the weather,

the basis of the site had to be heated by one work zone at a time.

How was the insulation planned? Did everything go according to plan?

The whole insulation project was done in **three phases**. First the vapor barrier area was insulated.

After that, insulation area was divided in two sections and was insulated one into time. **The project went entirely according to plan.**

How long did insulating take?

Did the spraying disturb other contractors on the site?

The whole insulation project was completed in **10 days**. Work also took place outside of normal working hours and during weekends.

Disturbance of other contractors was almost non-existent.

Ekospray was sprayed before all the other work on the roof was finished. Doesn't the insulation layer suffer damage from being constantly walked on?

Sprayed PU insulation **tolerates stress really well**. Normal walking and storing of building

materials won't cause any damage to completed insulation.

Was it hard to form an airtight structure by using Ekospray?

If the objective is to provide structures with insulation that is 100% tight and energy

efficient, **sprayed PU insulation is the only reliable option.**

WHY TO CHOOSE CLOSED CELL EKOSPRAY®?

- **M1-classified** insulation material
- **Thickness of >35mm's** will be enough to form a vapor barrier
- **U-value 0,17 W/mK** can be reached by 150mm of thickness
- **Reduces the heating costs** of the building
- **Completely airtight** insulation layer
- **Stiffens** the structure
- **Doesn't mold or absorb water**
- **Attaches to unlevelled surface, doesn't require the flattening of the base**
- **Great burden resistance**

CONTACTS

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DELIVERING SMART MATERIAL TECHNOLOGIES

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