

Energy effective coating: Double Hybrid Membrane Technology (DHMB)

From my recent trip to Germany I brought a very interesting product idea: Energy efficient coating.

A coating, applied like paint, reflects ultraviolet and infrared radiation, repels H₂O molecules, a micro membrane pumps moisture from the base and heated H₂O molecules transport energy (and moisture, naturally) away.

This has many very positive effects

- Less energy
- Less moisture
- Less odour
- Less mould
- Less fading

On an intensive trip visiting projects around the city of Paderborn I could personally see the positive impact of MIG-ESP coating. Examples:

- These 2 townhouses have been built at the same time (approx. 5 years old). The house on the left is painted with conventional paint and clearly shows a change of colour due to build-up of dirt and pollen. The one on the right is coated with MIG-ESP and looks like new. Any dirt and pollen is repelled along with water.



- A school canteen near the German city of Paderborn has been coated with MIG-ESP. When I visited shortly after the lunch break (kitchen still in operation) there was no obvious smell of any food.



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- The laundry of a 7-apartment building where all tenants have their own washing machine and drier was very dry and did not have the typical soapy smell. Heating costs have been reduced by 70%.
- In the General Manager's office the heating panels have been permanently removed, during winter it has been proven that they are no longer required (the rest of the building has heating)



Personal experience: We have applied the coating in our bathroom, over a 3-month period it shows less moisture and condensation after a shower, hence reducing the risk of mould.

- *How does it work?* - Watch a short video explaining how heat energy is reflected and moisture is repelled.
<https://www.youtube.com/watch?v=e6oRFVUvAJM&feature=youtu.be>
- *How is it applied?* - Just like paint. Depending on the subsurface various primers are provided. Also there are coatings for interior, exterior and roofs.
- *What are the benefits?*
 - o Less energy
 - o Less moisture
 - o Less odour
 - o Less mould
 - o Less fading
- *What is the return of investment?* – The above mentioned 7-apartment building demonstrated a return of investment after 2.7 years. If a building or a room is due for a renovation anyway, the additional cost for material is relatively small as the majority of the total cost is labour.

Please feel free to contact us for more information and a demonstration.