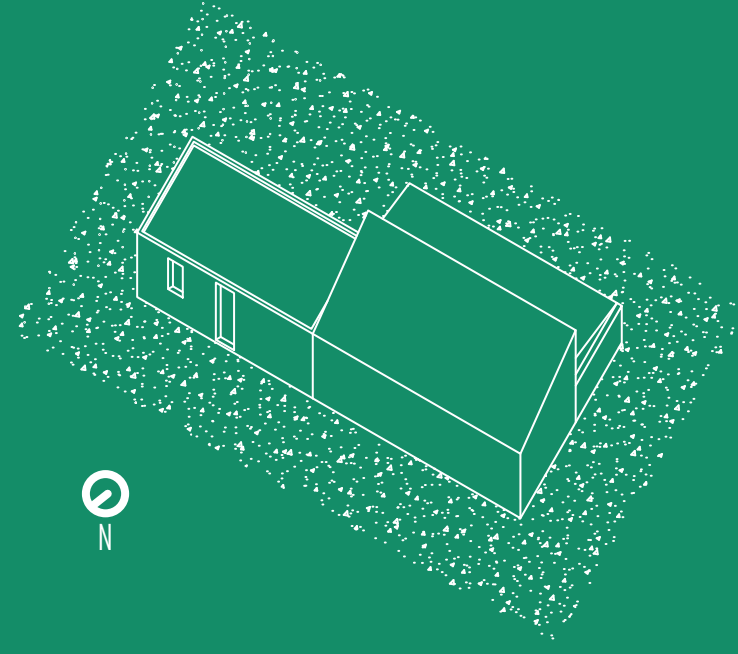


NANOTECHNOLOGIC
MICRO-COATING SYSTEM



THERMAL INSULATING TREATMENT REPORT

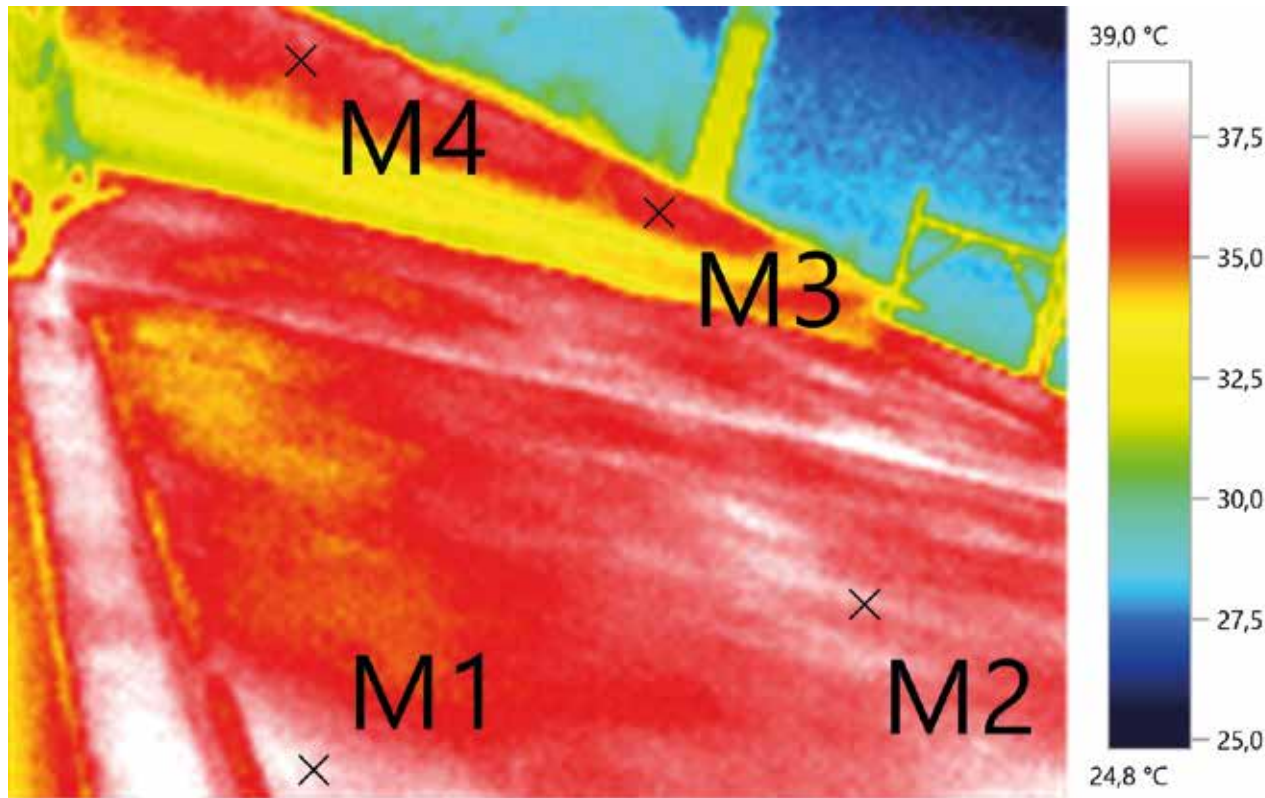
THERMAL INSULATING TREATMENT REPORT



The measurements in this report were conducted in the month of August and concern the trend of the external temperatures of the roof and walls of a residential structure facing the sea located in the marina of Sorso (SS) before during and after the application of the nanotechnological microcapping C-COAT Facade.

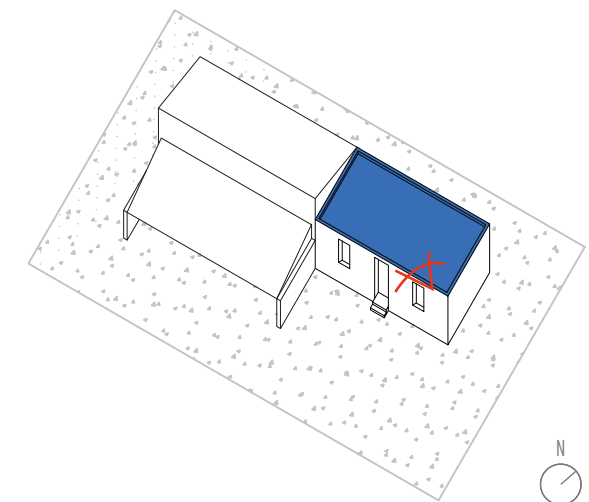
The external temperature on the days of the measurements measured an average of 30 degrees.

The product was applied using the AIRLESS system following the instructions in the application manual.



N.	Temp. [°C]
M1	38,0
M2	37,2
M3	35,6
M4	36,0

Temperature ratings Img 0.



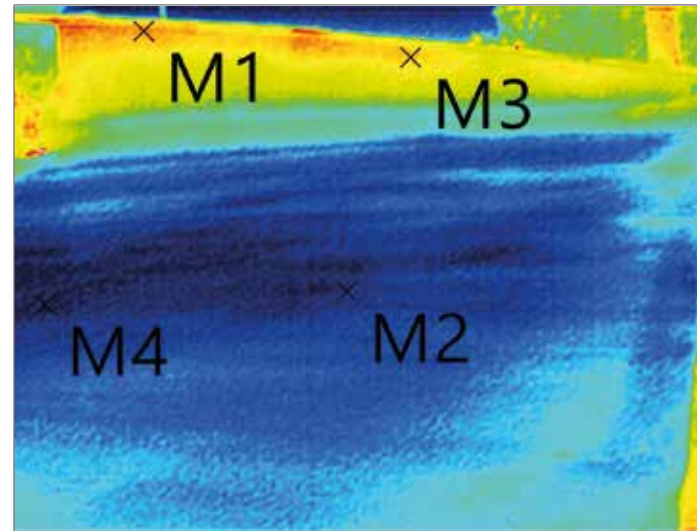
Structure diagram, point of interest

Img 0. Roof surface, thermal detection.

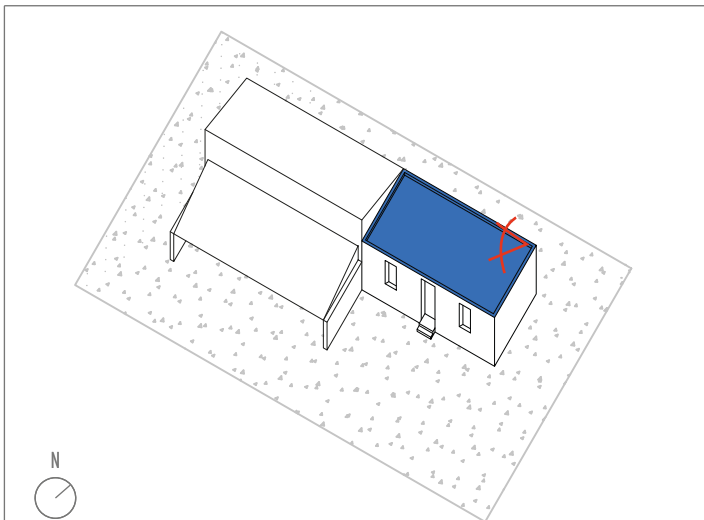
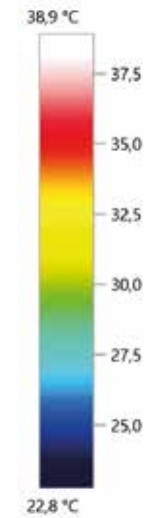
The roof surface is a rough concrete screed. The surface temperatures are between or 35 and 40 degrees before the start of the intervention.



Img 1. Roof surface, photographic survey.



Img 2. Roof surface, thermal survey.



Structure diagram, point of interest.

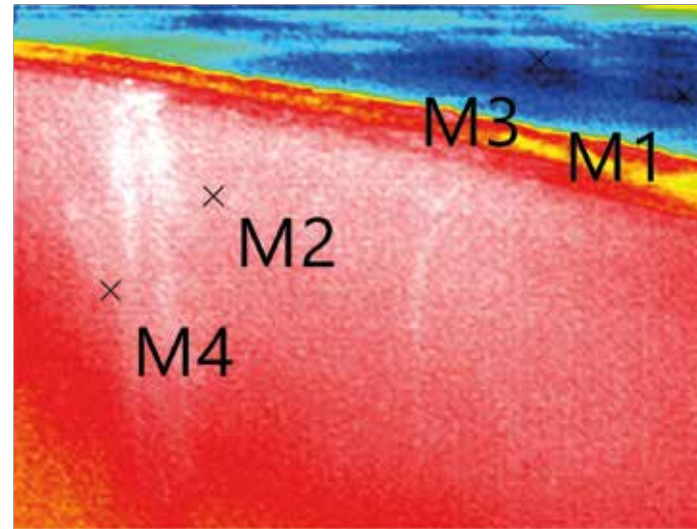
N.	Temp. [°C]
M1	33,6
M2	23,9
M3	32,8
M4	23,8

Temperature ratings Img 2.

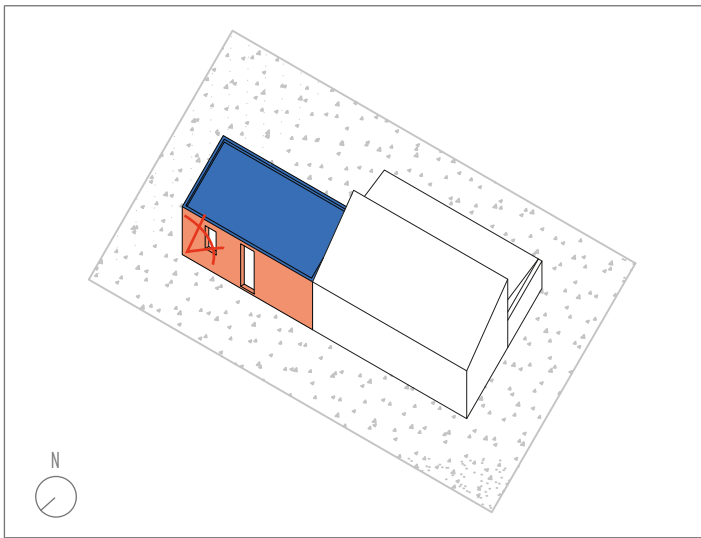
It is noteworthy that already after the application of a layer of only **0.5 mm**, the first visible results emerged. However, the performance does not yet show complete homogeneity.



Img 3. North wall surface and roof surface, photographic survey.



Img 4. North wall surface and roof surface, thermal survey.



Structure diagram, point of interest.

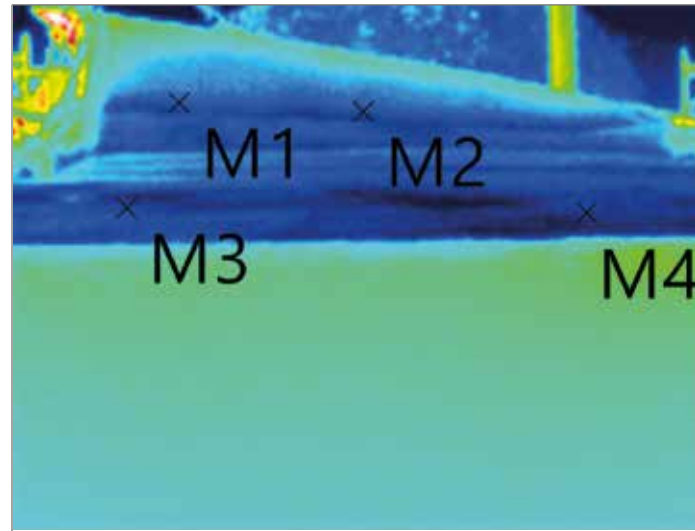
N.	Temp. [°C]
M1	24,4
M2	34,0
M3	24,8
M4	33,5

Temperature ratings Img 4.

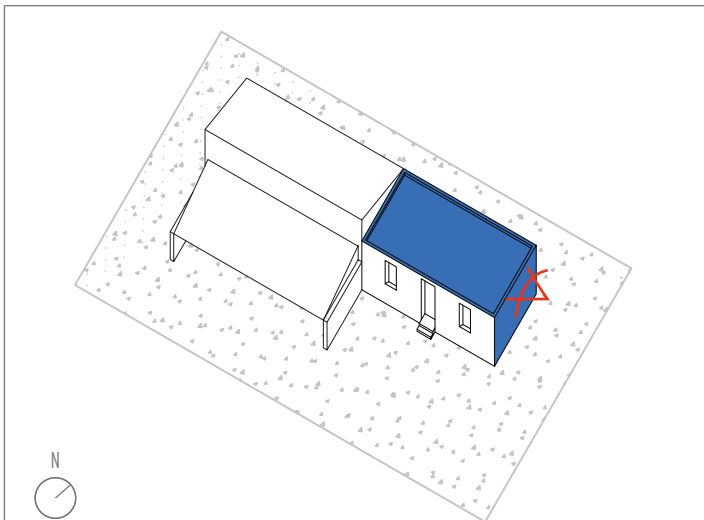
In this survey, the difference in temperature between two surfaces exposed to the same degree of solar irradiation can be seen most clearly. M4 and M2 refer to the north wall, which has not yet been treated; M1 and M3 refer to the roof surface: **only treated with 0.5 mm for the time being.**



Img 5. East wall surface and roof surface, photographic survey.



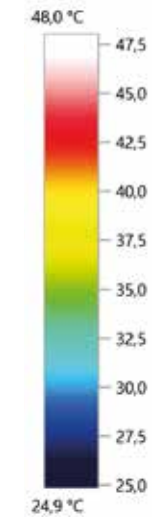
Img 6. East wall surface and roof surface, thermal survey.



Structure diagram, point of interest.

N.	Temp. [°C]
M1	28,1
M2	28,0
M3	28,0
M4	27,2

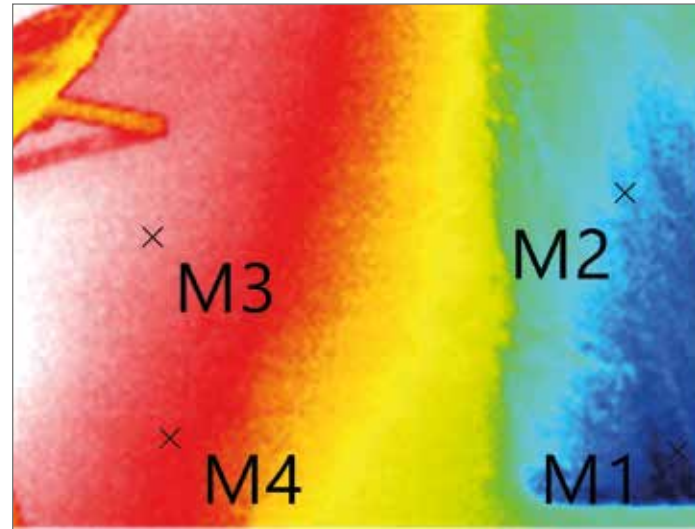
Temperature ratings Img 6.



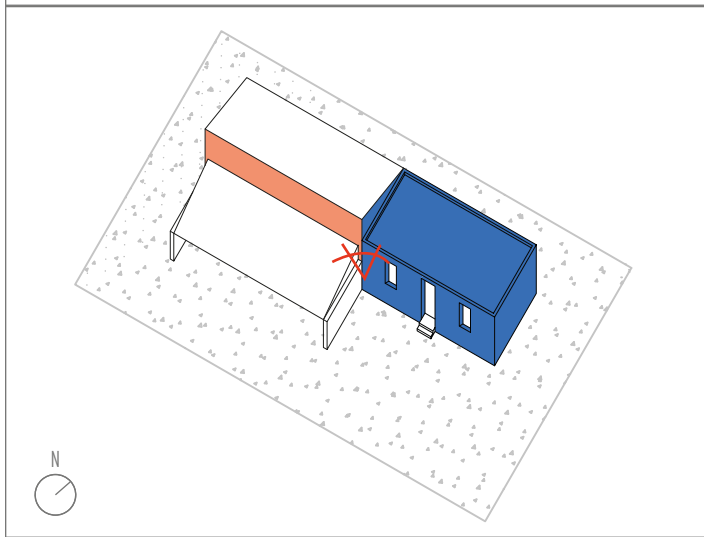
Having reached a thickness of 1.00 mm, all treated surfaces reached homogeneity in a stable temperature of around 30 degrees the day after the application ended.



Img 7. South wall surface of adjacent building (untreated) and East wall (treated building) photographic survey.



Img 8. South wall surface of adjacent building (untreated) and East wall (treated building) thermal survey.



Structure diagram, point of interest.

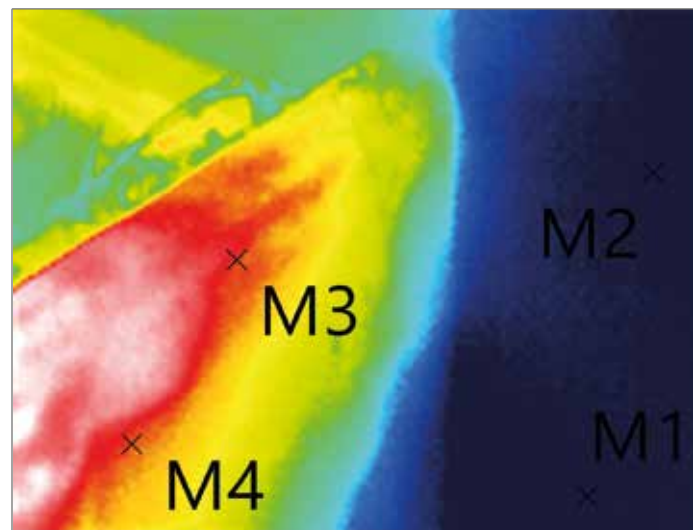
N.	Temp. [°C]
M1	29,0
M2	30,8
M3	41,0
M4	39,7

Temperature ratings Img 8.

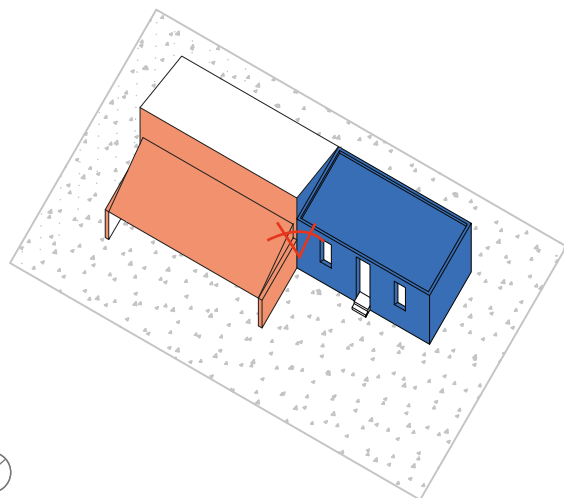
After application, we can clearly see the difference between an untreated surface and the surface treated with 1.00 mm of nanocoat, both exposed to the same degree of solar radiation.



Img 9. Comparison of treated and untreated surface area on the south side of the building, photographic survey.



Img 10. Comparison of treated and untreated surface area on the south side of the building, thermal survey.

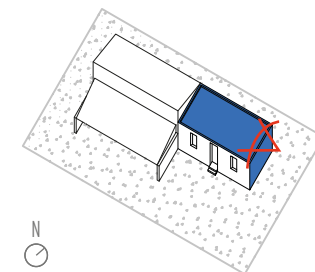
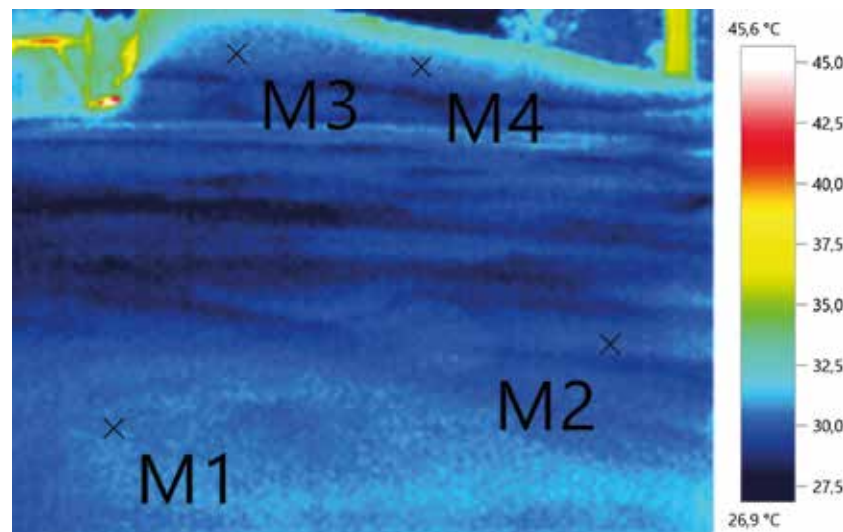
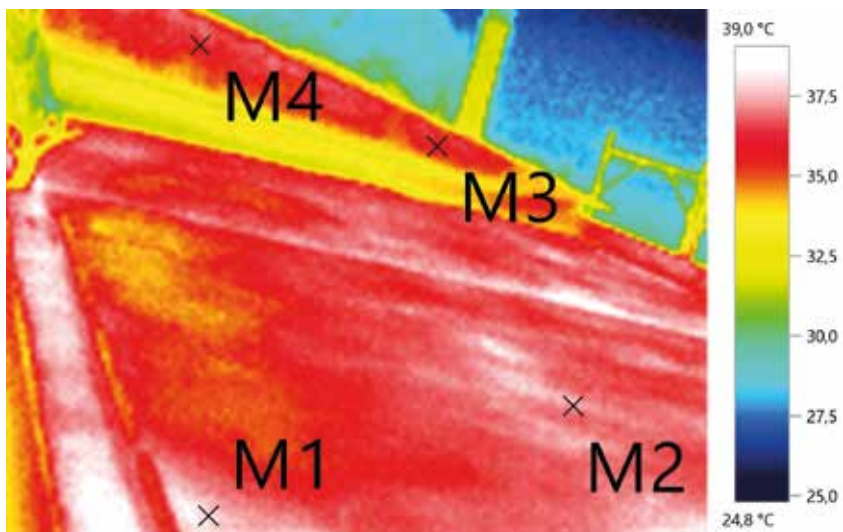


Structure diagram, point of interest.

N.	Temp. [°C]
M1	33,3
M2	33,4
M3	47,2
M4	46,8

Temperature ratings Img 8.

Worthy of note are the comparison values between a wall treated with 1.00 mm thickness and a wall treated with tar paper (the C-Coat FACADE is perfectly impermeable to water and vapour-breathable).



Img 11. Roof surface, thermal survey PRE-INTERVENTION

Img 12. Roof surface, POST-INTERVENTION thermal survey.

N.	Temp. [°C]
M1	38,0
M2	37,2
M3	35,6
M4	36,0

N.	Temp. [°C]
M1	28,2
M2	28,5
M3	28,3
M4	28,5

Temperature ratings Img 11.

Temperature ratings Img 12.

At the end of the job, once the microcoat has dried completely, comparisons between PRE and POST intervention show a thermal gap of about 10 degrees on the surface temperatures of the roof.

The thermo-insulating properties of **C-Coat FACADE** will block up to **70% of heat loss**, allowing users to maintain a stable temperature in inhabited areas with a significant energy saving on heating and cooling air systems.

The **1.00 mm** performance of **C-Coat FACADE** achieves a level of **thermal resistance R4** [$4.02 \text{ m}^2\text{K}/\text{W}$ according to *ISO 6946*] (value achievable with approximately **20cm of EPS**), with the advantage that thanks to its water-repellent properties, **C-Coat FACADE** made the roof and the walls of the house perfectly waterproof while guaranteeing the breathability that will prevent the development of fungi and mould.

Application and reporting by team

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