MOGAT
Dachsysteme ≣ Bauwerksabdichtung

NIVIS white

Highly reflective

Sprinkler for “Cool Roofs”

Innovative, profitable, sustainable

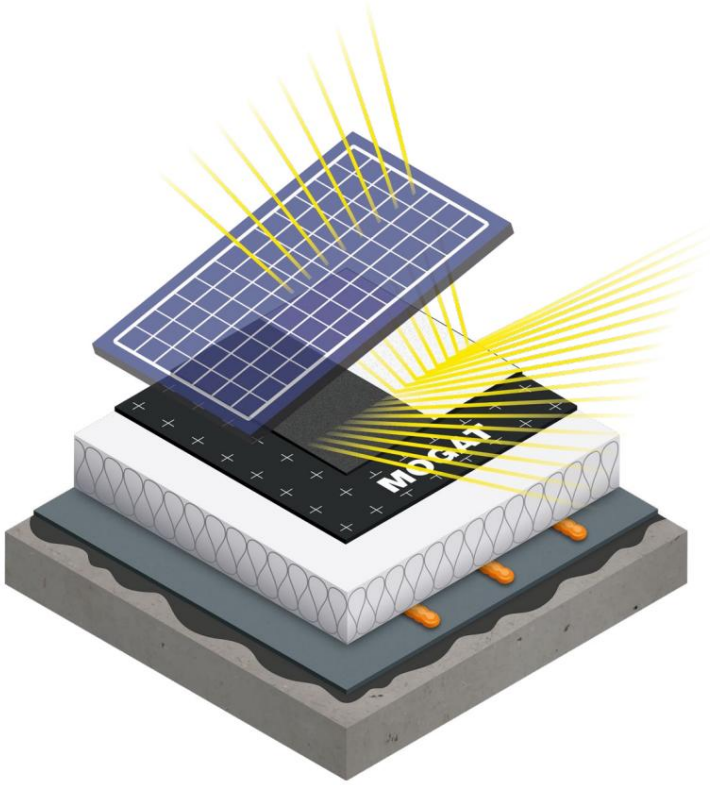
NIVIS white, MOGAT's innovative, highly reflective coating, is a next-generation surface granulate. In addition to its stylish aesthetics, the new coating impresses with its thermal, insulating, and reflective properties.

In short: a clever gritting solution to support many urban “cool roof initiatives.”

NIVIS white also scores highly in terms of sustainability and cost-effectiveness. Specifically: Compared to other colored or conventional white coatings, NIVIS white releases significantly less heat to the underlying components, the building itself, and its surroundings. This not only extends the service life of the roof waterproofing and reduces near-surface air temperatures, but also reduces the energy required for building cooling and saves costs.

NIVIS convinces with:

- ÿ extended service life of the roof waterproofing
- ÿ valuable contribution to the prevention of urban Heat islands
- ÿ Achieving higher energy yields, especially with bifacial photovoltaic modules (approx. 5 to 20%)
- ÿ Reduction in the cost of operating building cooling systems
- ÿ increased profitability for industrial and commercial areas



More yield with photovoltaic modules

In the vicinity of PV modules, NIVIS white helps reduce temperatures and prevent heat buildup, resulting in significantly improved module performance. For bifacial modules, which absorb reflected light from both sides, NIVIS white can achieve a yield increase of 5 to 20% compared to a black coating, depending on the roof layout, the distance of the modules from the roof surface, and the angle of incidence.

This leads to higher returns and makes the new surface granulate lucrative even for small roof areas.

Security for generations

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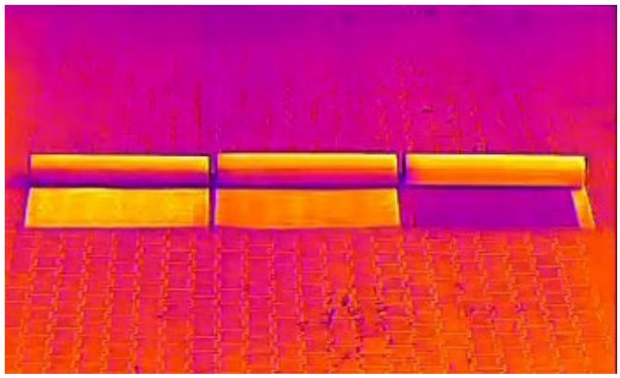
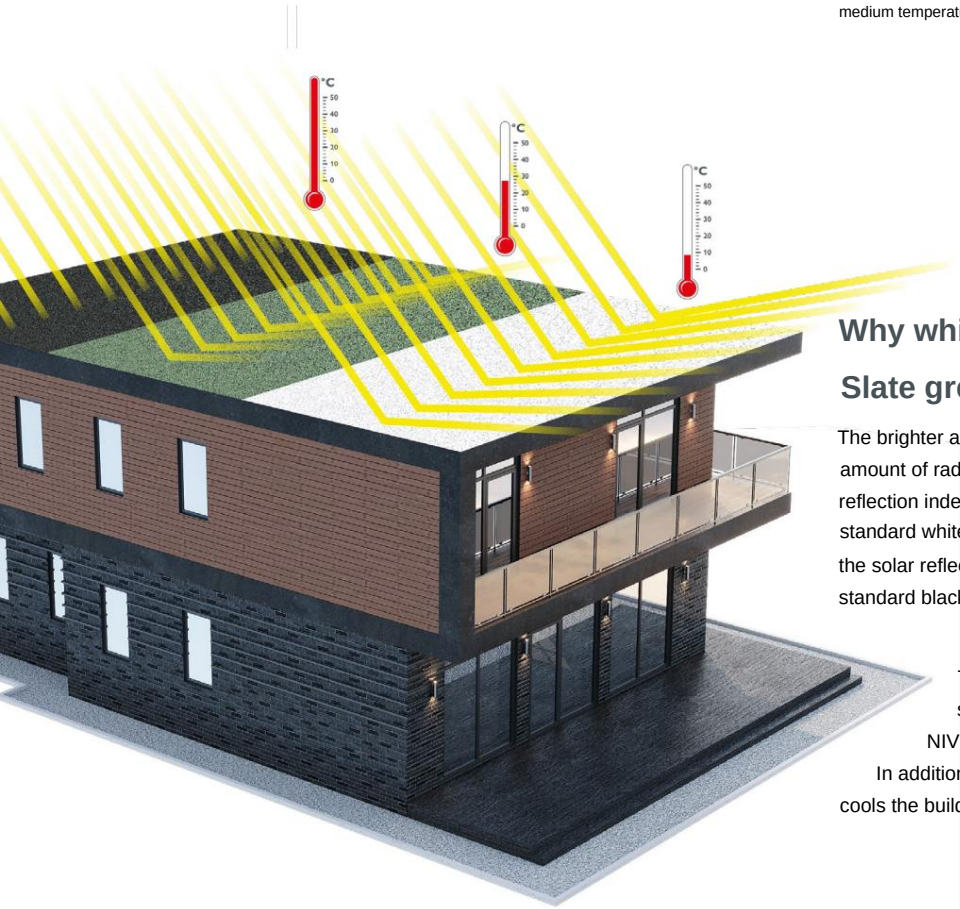
Reduces heating – avoids heat islands

With NIVIS white, the highly reflective, white surface granulate from MOGAT, bitumen membranes heat up significantly less than with other colored, conventional coatings –
This helps to specifically counteract the heating of urban areas and makes a valuable contribution to avoiding urban “heat islands”.



Temperatures in the infrared image (from left to right): highest temperature for black, medium temperature for slate green and lowest temperature for white sprinkling



Why white is better than Slate green or black

The brighter a surface, the higher its reflectivity and the higher the amount of radiation it reflects. NIVIS white achieved a solar reflection index (SRI) of over 60 in the test, significantly better than standard white coatings available on the market. By comparison, the solar reflection index for a slate- green coating is 18, while for a standard black coating it is only 2.

Thanks to its high SRI value, NIVIS white is ideal for sustainable construction and renovation. APOLLO O5T NIVIS white is also listed in the DGNB Navigator.
In addition, the high level of sunlight reflection noticeably cools the building sections below.

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