

KaWaTech®

If you want to protect your building for longer, you have to use KaWaTech

KaWaTech® is a membrane-forming coating which is unique in this form worldwide. By rolling, spraying or brush KaWaTech® on metal, glass, concrete, wood or building facades a continuous, transparent, film-like layer is produced which protects the coated surface. KaWaTech® is:

- ✓ water-repellent
- ✓ UV resistant and IR reflective
- ✓ resistant to de-icing salt
- ✓ heat- and cold insulating to at least 3.6° degrees room temperature
- ✓ photocatalytic properties (self-cleaning)
- ✓ natural protection against algae and fungus
- ✓ permeable (breathable)
- ✓ crack bridging up to 1.4 mm
- ✓ electrostatically tested
- ✓ developed and certified in Austria (MA 39, wood research Austria, OFI)
- ✓ patented EU-wide

REFERENCE: GLASS ROOF COATING OF THE AUSTRIAN PARLIAMENT



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Plinth coating Schönbrunn



Window coating Federal Chancellery

SOME ADVANTAGES AND SAVINGS

- ◆ When coating surfaces, the stroke interval increases by about two cycles. Savings occur due to the UV resistance and water impermeability, as, for instance, surfaces only need to be coated once in 12 years.
- ◆ The coating of buildings reduces air conditioning costs by at least one third.
- ◆ When coating tanks with KaWaTech®, the internal temperature of the container is reduced by up to 20°C. Whereas previously tanks could not have been filled completely due to contents expanding in heat, this is now possible.
- ◆ The coated surface has photocatalytic properties and is therefore self-cleaning.

APPLICATIONS

METAL

✓ CONTAINERS ✓ TANKS

The summer heat protection by KaWaTech® limits the heating of tanks or containers caused by solar radiation. As the temperature increases, the wavelength spectrum expands to the shorter wavelengths and includes the visible range. This results in a spectral distribution of the wavelengths. Infrared radiation (or heat radiation) warms the absorbing body much more strongly than visible light does. KaWaTech® achieves a UV reduction of 99.8% and an IR reduction of 89.0%. This enables a temperature reduction in the interior of the coated tanks or containers of up to 20°C.

CONCRETE

✓ TUNNELS ✓ BRIDGES ✓ FLAT ROOFS

Applying KaWaTech® to concrete structures supports the load-bearing capacity, improves the appearance and minimises repair measures caused by de-icing salt or water entry. This reduces maintenance costs. KaWaTech® prevents the ingress of moisture into the structure. Already penetrated moisture is dissipated by diffusion.

GLASS

✓ GLASS ROOFS

The glass coating is applied with a thickness of 0.4 mm. It contains the IR blocker and the UV protection due to extreme exposure to the sun. Connecting elements of the structure are pre-coated with a thicker material and then the entire surface is covered with KaWaTech®. This ensures the highest possible density (water penetration) and deduction of the IR radiation (heat protection).

FACADE

✓ BUILDINGS

The protection of building surfaces and outdoor facilities represents a substantial share of maintenance costs. The coating is applied with a thickness of 0.4 mm and protects the building surface against heat penetration, water entry and environmental influences. The special coating has a high reflection ability. The irradiated energy is reflected to 89%. The surface must be dry (no moisture in and on the substrate to be coated) before applying KaWaTech®.

WOOD

✓ FENCES ✓ BALCONIES ✓ TIMBERING

Protection is particularly necessary in outdoor areas, where wood is exposed to the influence of the weather. Sunlight (UV rays), humidity and temperature fluctuations are the three main factors that damage wood. The wood elements (garden fences, flower boxes, balconies, wooden claddings, carports and much more) are coated with KaWaTech® to prevent water penetration and UV radiation. Repair measures as well as conservation costs are thereby minimised and the wood is protected. KaWaTech® prevents moisture from entering into the wood elements. Should moisture still penetrate, it is dissipated by diffusion.



Window coating Ministry of Women



Window coating Ministry of Justice



Glass coating State Archives

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Balcony coating Palais Epstein

