



CALOR[®] PRODUCTS WARM WHITE

Effective additives for high demands

CHT
SMART CHEMISTRY
WITH CHARACTER.

CALOR[®] PRODUCTS

Effective additives for paints and plasters

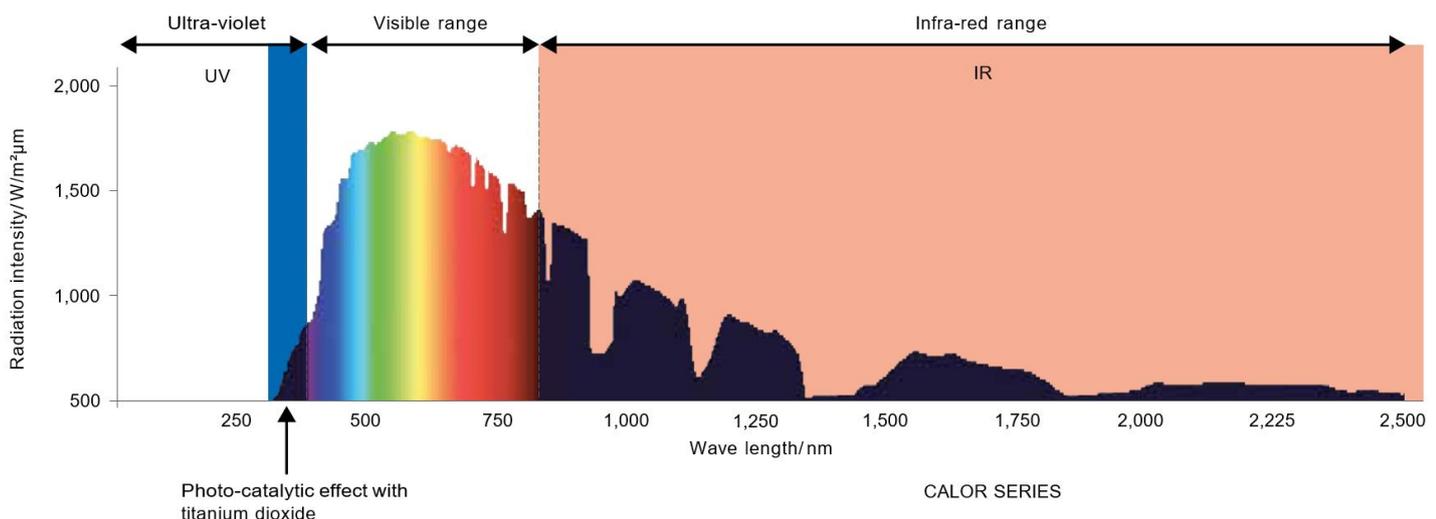
High quality products need unique additives. CHT provides you with help and advice. Thanks to our innovative research and our experienced staff we can develop such products for you. Using our experience of many years in research and development we brought the CALOR PRODUCTS to processing.

To reduce algae and fungi on facade surfaces mostly biocides and algicides are applied. Biocides slow down the algae formation, but they do not prevent it. It is known that dark paint or plaster coatings tend to be less affected by algae and fungi than light plaster. Dark facades warm up when exposed to sunlight and make water of condensation and rainwater evaporate faster. Humidity is withdrawn from the algae and fungi and thus their growth is prevented. With CALOR in light facade coatings, we obtain the same effect, the so-called "warm white".

Mode of action of CALOR PRODUCTS

The CALOR PRODUCTS are mineral pigment based products for paints and plaster systems. The pigment takes up an increased quantity of infrared radiation and transforms it to heat. The increased surface temperature makes rainwater and water of condensation dry faster at the facade surface, so that algae and microbes are deprived of their living conditions. The functional surface coating allows the reduced application of fungicides and biocides. Due to its mineral composition pigments of the CALOR PRODUCTS remain durably effective.

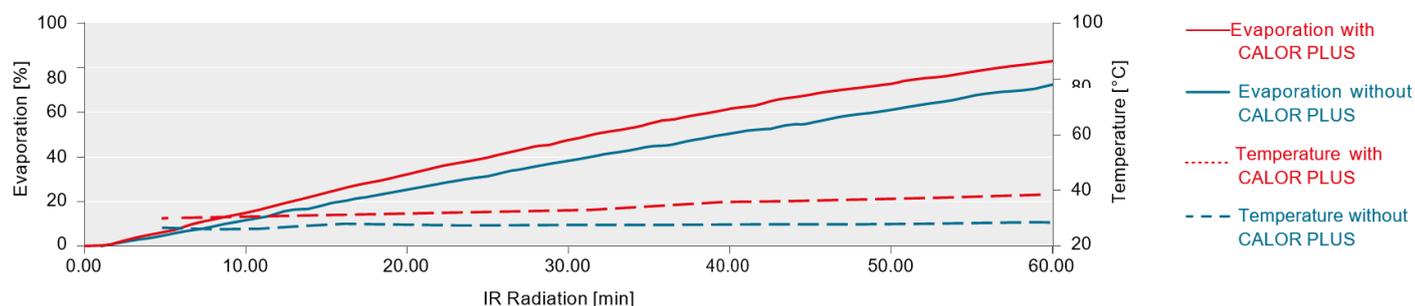
Sunlight on earth



Sunlight is emitted in different wave lengths by the CALOR PRODUCTS.

CALOR PRODUCTS for light house fronts

Development of temperature and evaporation by IR radiation



The graphic shows that with application of a small quantity of CALOR PLUS the surface temperature can be increased about more than 10 °C. Coating systems modified by CALOR PRODUCTS show a 20% faster drying speed after exposure to rain and formation of condensation water.

Our CALOR PRODUCTS are supplied in the following delivery forms:

CALOR PRODUCTS	CALOR PLUS	CALOR SIL
Appearance	Powdery pigment	Aqueous pigment paste
Concentration	100%	Approx. 43%
Time of addition	During dispersing process	During or at the end of the production process
Recommended Addition	0.1 – 0.2 %	0.2-1.0%

The following picture was taken by a thermal imaging camera of two colour systems after a 10 min radiation by an iR lamp. The left sample was modified with 0.2% CALOR SIL and the right sample was not modified. The measured temperature difference was more than 10 °C.

