

Insulcoat 1260-RFL

Insulcoat 1260-RFL, an energy-saving reflective coating

Tunnel furnace wall (after being coated with Insulcoat 1260 RFL)

Energy-saving in thermal process plant, including tunnel and bogie hearth kilns in the ceramics industry, is a topic which has received a great deal of attention in recent years.

Accordingly, current up-to-date tunnel and bogie hearth or bell kilns are being equipped with energy-saving, fire-resistant insulation, heat recovery and optimum burner control.

Recent developments, however have established that additional energy savings and/or improved product quality can be achieved in up-to-date (new) as well as existing (older) kilns.

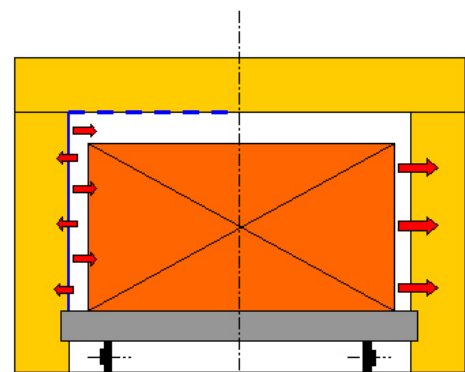
Following an extensive development and test period, INSULCON BV is introducing a new reflective and energy-saving coating:

INSULCOAT 1260-RFL

This coating is applied rapidly and durably on kiln walls and roof by spraying, with a remarkably favourable result.

Reflection from the walls creates more radiation, bringing about a more uniform temperature which improves homogeneity and hence the quality of the outer faces of brick packs (fewer seconds).

The effect is even more marked if the (tunnel) kiln roof is coated with **INSULCOAT 1260-RFL** as well. In this case however, care must be taken to ensure that the expansion joints are free from coating and that burners and inspection apertures are adequately masked off while the coating is being applied.



With Insulcoat 1260-RFL coating

Reduction in heat loss due to reflective 1260-RFL coating. A more uniform temperature profile in the outer faces of brick packs

Without Insulcoat 1260-RFL coating

The outer face of the brick packs loses more heat and requires additional heating in order to ensure the temperature in the brick pack is kept uniform.

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Tunnel furnace wall (before being coated with Insulcoat 1260 RFL)

The greatest impact of applying INSULCOAT 1260-RFL is obtained on those kiln surfaces which attain temperatures in excess of 800 °C, referred to as radiant surfaces.

Since the coating is very quick to apply, an average firing zone in a tunnel kiln can be coated with **INSULCOAT 1260-RFL** in a single day. This is certainly the case if the preparatory work such as eliminating dust, removing loose particles, masking off expansion joints and burners has already been carried out and the kiln has cooled down below 30 °C.

The coating can be applied to any type of (refractory) surface such as refractory masonry, refractory concrete, suspended slabs, ceramic fibre, etc.

INSULCOAT 1260-RFL a further benefit for the last-named category (ceramic fibre) in particular: it protects the relatively soft fibre surface against erosion as well as minimising the release of fibres. It is therefore highly suitable for kiln doors and/or tracks with HT fibre cladding.

Benefits of Insulcoat 1260-RFL

- High reflectivity, which means increased radiation from the walls onto the product and improved quality as a result.
- Can be applied to the full range of (refractory) material types such as refractory masonry, refractory bricks, suspended slabs, ceramic fibre, etc.
- Quick and easy to apply (1 day).

For more detailed information about these products, please do not hesitate to contact one of our specialists.

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