

Pulvertherm® powder coatings, are products based on solid silicone resins, formulated to get film layers by very good light and temperature fastness and different gloss levels and surface structure.

According to specific formulation it is possible to get different levels of temperature resistance, finishing and colours.

In this case, we have formulated two main ranks important for specific thermal properties: rank PT3 and PT5.

## USE:

Coating parts/pieces for indoor or outdoor use, that have to operate at "high" temperature: grill – stove – fireplace – car and motorbike exhaust pipes and silencers – cooker boards – metal pots, etc..

## APPLICATION:

Using normal electrostatic powder coating spraying lines: guns voltage setting higher than 30 KV.

## SERIE PT3:

It is the medium resistance rank, it has good thermal resistance till 300°C.

It can be formulated with leatherette, fine leatherette, fine textured and mat finishing and several colours rank.

Other requests can be evaluated and studied.

Gloss level, Gardner 60° can change between 3 and 30 gloss.

Curing conditions 10' at 200°C.

## SERIE PT5:

It is the highest resistance rank, in fact it resists at about 540°C.

It can be formulated with mat leatherette or fine textured finishing.

The colour rank is by black to dark greys or metallic finishing. Other shades have to be evaluated and studied.

Gloss level, Gardner 60° can change between 3 and 20 gloss.

Along the time at so high temperature, the film could have physical and chemical changes.

Curing conditions 30' at 230°C.

## USE SUGGESTIONS:

40 micron is the suggested layer thickness to get the best film properties.

After products use, it is necessary to pay a lot of attention to coating line cleaning, because, these products are pollutant of normal powder coatings. So, not correct cleaning could give pollution with craters/voids appearance.

Colours rank is according to market availability of pigments/dyes with suitable thermal resistance.

Shelf life of these powders, stocked at 30°C is about 6 months.

## SURFACE PREPARATION:

Metal surface pre-treatment, normally iron/steel, have to be chosen according to piece and operating temperature .

The best performances can be got by pre-treatments like: sand blasting, phosphate degreasing, iron or zinc phosphating.



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N.B.: this technical information is the result of our experience and the customers one. The user, according to his needs and equipment, undertakes the responsibility of testing and processing.