

Alesta® HR

Heat resistant powder coatings.

Alesta® HR is a heat resistant powder coating based on a silicone resin, specially developed to protect surfaces exposed to extremely high temperatures, up to 550 °C, without deterioration of the film.

Axalta has developed this new range of powder coatings as end users have quickly recognised these benefits, which directly affect the service life of the coated product. Standard powder coatings can't fulfill these requirements.

Targeted markets are general industry and jobcoaters that specialize in coating exhausts, manifolds, boilers, barbecues, oven grates or any other item exposed to heat up to 550 °C.

Alesta® HR is characterised by its ease of application along with excellent adhesion and corrosion protection. It can be applied at lower film thickness compared to standard powder coatings and in addition, there is no cracking, delamination or change in appearance following exposure to heat.

The application of Alesta® HR is usually done on mildly blasted substrates. This helps to lower the substrate preparation costs as there is no need for chemical pretreatment.

A special range of 3 products with excellent heat resistance properties has already been formulated. The new Alesta® HR range is available in black in the following types of finishes: smooth matt, smooth matt metallic and texture matt.

Alesta® HR does not cause any contamination on the production line when the handling and cleaning instructions are followed, so it can be combined with standard polyester powder coatings. For information on substrate pre-treatment please consult your local Axalta representative.



Highlights

- Temperature resistance of 2 hours at 550 °C or 24 hours at 400 °C
- Can be applied at lower thickness
- No special equipment needed for application
- Excellent adhesion
- No cracking or delamination
- Excellent gloss and colour stability
- Good corrosion protection
- No contamination problems