

WHEELPAINTS

Specialist Paints for the Alloy Wheel Industry

PRODUCT INFORMATION

SATIN/MATT BLACK POWDER 54-00-42P

This is a Polyester Industrial Product formulated especially for decoration and protection of metal components for both outdoor and indoor use. It offers good weathering resistance, good mechanical properties and a good balance of coating properties.

Characteristics:

- Matt Smooth
- Solid
- Corona

Usage area:

- Protection and decoration of interior parts
- Lighting equipment and construction
- Electrical cabinets
- Industrial outdoor application e.g. agricultural machinery, garden furniture, fencing, electrical
- Domestic and industrial appliances
- Indoor application e.g. shelving, office furniture, partitioning, white goods

Approvals:

UL MH45216 (Fr)

- This powder complies with the European Directives "Restriction of the use of certain hazardous substances" 2002/95/EC and 2011/65/EU (RoHS)
- Classification A2 (non-flammable) of reaction to fire in accordance with NF EN 13501-1+A1 : 2013

The following data has been obtained under laboratory conditions as described below. Actual product properties such as gloss, colour and finish may vary depending on application conditions.

Test Conditions:

- Curing Conditions (object temperature) - 12 min @180°C
- Substrate – 0,8mm Steel Panels
- Film thickness (EN ISO 2360) 60±10

Physical Data:

- Density (calculated)- 1,71g/cm³

Product Performance/ Film Properties:

Gloss @60° (EN ISO 2813) – 30±5
Impact Resistance (EN ISO 6272) – 1kg/50cm
Adhesion (EN ISO 2409) – GT0
Erichsen Cupping (EN ISO 1520) – 7mm
Cylindrical Mandrel Bending (EN ISO 1519) – 5mm

Curing Conditions (object temperature)

Can be cured using a variety of methods, e.g. IR, convection, combi ovens. In direct gas ovens, combustion by-products may cause significant colour changes (for specific advice, please contact us).

9-14 min @ 190°C
12-17 min @ 180°C
17-25 min @ 170°C

Storage Stability:

24 months/35°C
Shelf life applies to materials stored in sealed plastic bags under dry and cool conditions.

Substrate Preparation:

- Surface preparation should be chosen according to type of substrate and required performance.
- The suitability of the surface preparation should be tested by the coater beforehand using appropriate test methods.

Applications:

- Do not mix this product with other powder coatings.
- Substrate should be correctly cleaned before use.
- Can be applied with manual or automatic guns.
- Film Thickness: Application settings will depend upon the geometry of the object being coated as well as the required film thickness. It is the responsibility of the applicator to make the appropriate adjustments. Certain colours should be applied at higher film thickness to ensure full coverage and therefore colour homogeneity. Below the limit, colour variation may occur due to differences in film thickness.
- Great care is taken during our manufacturing process but small variations in colour and/or appearance are unavoidable with effect colours. Therefore, we recommend that a single batch of powder coating should be used to coat parts that will be subsequently assembled together. Differences are more likely with effect powder coatings such as metallic, pearlescent, speckled, textured and combinations thereof. Differences will be more easily visible on large coated parts such as cladding panels, flat sheets, etc.

Comments:

- Certain chemicals or domestic cleaning products may cause damage to the appearance of the coating. We recommend testing a small inconspicuous area first to confirm suitability.
- Please contact us for specific questions.

- In instances where the coating will be subjected to additional processes (such as printing, labelling, overcoating, post forming, gluing, application of sealant or any other post-treatment), adequate testing should be performed to confirm suitability. Prototypes should be prepared under conditions that are representative of the final production process.
- Coated parts should be packed after they are fully cooled using suitable materials that are free of plasticizers. Packaged parts should be stored under cover to avoid the formation of condensation (e.g. under plastic wrapping film) which could result in permanent marks on the surface of the coating.

Safety:

Please consult the Safety Data Sheet prior to use.

The information provided herein corresponds to our knowledge on the subject at the date of its publication. This information may be subject to revision as new knowledge and experience becomes available. The data provided fall within the normal range of product properties and relate only to the specific material designated; this data may not be valid for such material used in combination with any other materials or additives or in any process, unless expressly indicated otherwise. The data provided should not be used to establish specification limited or used alone as the basis of design; they are not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of a specific material for your purposes. Since Wheelpaints cannot anticipate all variations in actual end-use conditions, Wheelpaints make no warranties and assumes no liability in connection with any of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent rights.