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# IBATHIN

# Technical Data Sheet

## Description

IBATHIN is a high flow powder coating developed for applications requiring film thicknesses substantially lower than normally encountered in the powder coating industry. It provides excellent flow and gloss with good adhesion combined with excellent overall performance. It has very easy application properties.

## Characteristics

Excellent flow at low film builds (..T: 30µm; ..U: 20µm)
Cost savings
Less consumption (..T: up to 60%; ..U: up to 70%)
Less storage area
One coat finishes
Less waste and pollution to the environment

## Applications

Home appliances
Shelves
In general, large flat components will show optimum performance.

## Product Properties

| | |
|---|---|
| Colour | White and light grey colours |
| Surface | Gloss GLT/GLU - Semigloss HRT/HRU – Semimatt CST/CSU |
| Specific gravity | 1.6 - 1.8 gr/cm3 |
| Shelf Life | 12 months (< 30°C and < 50% RH) |

## Application Data

| | |
|---|---|
| Application | Corona/Tribo (Can be applied by tribo guns if product code has “T” for the 6th character) |
| Curing | Check for TDS for the specific series |
| Film Thickness | ..T: 20-40 µm (recommended)<br>..U: 15-30 µm (recommended) |
| Theoretical cons. | ..T: 18-20 m2/kg. Calculated due to recommended average film thickness 30µm.<br>..U: 28-30 m2/kg. Calculated due to recommended average film thickness 20µm.<br>Practical spreading rates will vary due to such factors as method and conditions of application, specific gravity, surface profile and texture.<br>Consumption for Ultra thin film ..U @ 20 µm: 28.6 m²/kg<br>Consumption for Thin film ..T @ 30 µm: 19.1 m²/kg<br>Consumption for normal film @ 70 µm: 8.7 m²/kg |

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## Application Guide

### Surface Preparation

All surfaces should be degreased and pre-treated for optimal performance.
Suitable pre-treatment includes:

| | |
|---|---|
| Aluminium | Yellow chromate or green chromate/phosphate |
| Ferrous metals | Zinc phosphate or Iron phosphate |
| Zinc Coated Metals | Zinc phosphate or chromate |

### Application Procedure and Equipment

IBATHIN powder coatings charging properties are optimized when powder is free-flowing and moisture-free. Aged or compacted powder may require preconditioning for several minutes to fluidise evenly.
If storage room temperature is lower than the application area, powder coatings, which are hygroscopic, should be acclimated in unopened containers prior to adding into the spray hopper. For optimum performance, It should be applied and stored at air-conditioning area. Storage temperatures should be kept below 30 °C.
Powder should not be stored in hoppers for long periods of time. If moisture condensation occurs, fluidize powder to dry-out or replace moisture-laden powder with virgin powder.
Powder coatings are finely ground particulates. Respirators or dust masks should be used by workers exposed to powder in order to avoid dust inhalation.
Compressed air to the gun must be oil and moisture free.
Silicone should not be used in application area.
For box feeders, ensure probe is fully inserted in powder and operated as per manufacturer's recommendations.
Contact points should be maintained to ensure metal-to-metal ground.
Apply by electrostatic spray. Relative humidity should be 50-60% for corona system, lower than 40% for tribo system.
Cure as per recommendations outlined above.
Reclaim-to-virgin ratios should be carefully monitored to maintain spray consistency.
Sieving powder before adding to hopper eliminates potential clumping or foreign matter.
Test for cure of the coating by impact test.

## Care and Maintenance

IBATHIN powder coatings should be regularly washed with warm water and mild liquid detergent, followed by a fresh water rinse to maintain the attractive appearance of the powder cured film.
The use of abrasive cleaners is not recommended, nor is the use of active organic solvents.

## Health and Safety

The SDS is an integral part of using this product as it contains information on the potential health effect of exposure, personal protective equipment needed. It is recommended to contact to Sales and Customer Service Offices for further information.

## Precautions and Limitations

As a result of possible wide application variations and stoving conditions, IBATHIN may show variation, between İBA Kimya Powder Coatings prepared samples and production applied material. Therefore, it is the applicator and/or their customer's responsibility to ensure the product conforms to their requirements.
For optimum performance ensures recommended dry film thickness is obtained.
Not recommended for small and complex surfaces.

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## Transport and Storage

| | |
|---|---|
| Packaging | 15-20-25 kgs. Heavy polyethylene bag in a corrugated carton |
| Shipment | Not dangerous goods. No special transport requirements. |
| Storage Conditions | Storage temperatures should be kept below 30°C and 50% relative humidity. Powder should be stored in closed containers. |

*DISCLAIMER: All the information provided in this data sheet depends on our knowledge and experience up to date and may be subject to revision as new technology and experience evolve. Since the conditions of application may vary depending on the substrate, physical conditions and other variables, users should conduct necessary tests to determine the conformity of the product for its intended use. We do not accept liability since the application, use and processing of the products take place beyond our control and supervision. Moreover, our liability for breach of warranty is exclusively limited to replacement of the product or refund of its price and we are not liable for incidental, indirect or consequential damages under any circumstances.*