İBA KİMYA SAN. ve TİC. A.Ş.
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IBACHROME – PU

Technical Data Sheet

Description

IBACHROME – PU products are the closest match to chrome shine effect. At the end, mirror like effect is achieved providing an excellent appearance. It's required to use a clear top coat to avoid any effect damages due to sratching, rubbing or fingerprint. These thermosetting powder coatings based on polyurethane resins designed for interior and exterior applications.

Characteristics

PU40BC7657199GLX Chrome Premium
Metallic finish products
Aesthetic chrome like appearance
Excellent overall performance
Suitable for wide range of outdoor environments
Less waste and pollution to the environment

Applications

Office furniture
Lighting equipment
Electronic equipment

Product Properties

UV Resistance	Good
Flow out	Good
Surface	Gloss GL
Specific gravity	1.2-1.3 gr/cm^3
Shelf Life	12 months (< 30°C and < 50% RH)

Product Codification

Codification "B"	Do not resist to humidity and rubbing. A clear topcoat is required – like PE54DT000189GLX.

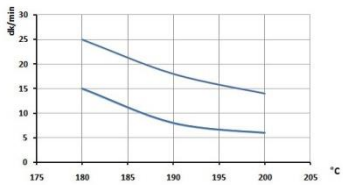
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Application Data

Application Corona
Curing 190°C 10 minutes recommended

Metal Temperature (°C)	Time (minutes)
180	15-25
190	8-18
200	6-14



Film Thickness 60-80 µm (recommended)
Theoretical cons. 10-12 m^2/kg. Practical spreading rates will vary due to such factors as method and conditions of application, specific gravity, surface profile and texture.

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
IBACHROME – PU series 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

IBACHROME – PU 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.

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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, IBACHROME – PU 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.
IBACHROME – PU powder coatings should be homogeneous before application. To ensure this, the entire box must be placed in the feding chamber and should be fluidized for about 10 minutes at minimum level which will provide gurgitation in the chamber.
The metallic effect of the cured powder coating will vary when the same powder coating is applied through different spray equipment.
The metallic effect may change when using recycled coating. If recycled coating is used, it should be added homogeneously.
It is recommended to use PE54DT0000189GLX polyester top coat. If no top coat is used, finger print or metallic effect reduction due to rubbing can be observed.

Transport and Storage

Packaging	15-20 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.