İBA KİMYA SAN. ve TİC. A.Ş.
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IBANEON

Technical Data Sheet

Description

Highly reflective IBANEON powder coatings designed for specific areas where a high degree of visibility is essential. Fluorescent coating reacts to long-wave ultraviolet (UV) radiation, commonly known as black light. Through the mechanism of fluorescence, UV-sensitive pigments present in the coating absorb black light and give off visible light in return. All fluorescent RAL shades can be produced for indoor applications, and they should be applied at the top of white basecoat. Special yellow, pink and green fluorescent colours are also available where no white base coat is required for indoor applications.

Characteristics

Vivid colours
Attractive materials
Less waste and pollution to the environment

Applications

Lightning equipment
Electronic equipment
Laboratory equipment
Picture frames
All specific areas where a high degree of visibility is essential

Product Properties

UV Resistance	Not recommended for exterior use. Vivid colour will fade for exterior use even polyester clear is applied as top coat.
Flow out	Good
Surface	Gloss GL – Semigloss HR – Semimatt CS
Specific gravity	1.4-1.7 gr/cm3 (low with dark colours, high with light colours)
Shelf Life	12 months (< 30°C and < 50% RH)

Application Data

Application	Corona (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	60-80 µm (recommended)*
Theoretical cons.	8-13 m^2/kg. Practical spreading rates will vary due to such factors as method and conditions of application, specific gravity, surface profile and texture.

**If it is yellow, orange, pink or red RAL shade (such as RAL 1026, 2005, 2007, 3024, 3026) then apply homogeneously at 60-80 µm as top coat on white coat. Please do not forget these are transparent coatings, and fluorescent colours cannot be achieved unless white base coat is used. If it is special colour or green RAL shade (such as RAL 6018, FF87AC3295109GLX Fluorescent Pink or FF35AT1499189GLX Fluorescent Yellow, etc) then apply homogeneously at 60-80µm. No white base coat is required for these coatings.*

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Coating Properties

Check for TDS for the specific series.

Application Guide

Surface Preparation
All surfaces should be degreased and pretreated for optimal performance.
Suitable pretreatment 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
IBANEON 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 on the specific TDS for the series.
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

Fluorescent 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.

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Precautions and Limitations

As a result of possible wide application variations and stoving conditions, IBANEON powder coatings 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 use in highly corrosive environments.
Not recommended for exterior applications.

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.