İBA KİMYA SAN. ve TİC. A.Ş.
1. Organize Sanayi Bölgesi
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IBAFROST – PE10DT0010100CMX

Technical Data Sheet

Description

IBAFROST is used as a matting agent post additive for interior or industrial exterior smooth powder coatings.

Characteristics

Homogeneous matting effect is achieved by homogeneous mixing.
Can be post added to all colour smooth powder coatings
Recommended addition ratio 5 – 30% (lowest gloss possible for highest addition ratio)

Applications

IBAFROST is added to finished smooth powder coating. Homogeneous mixing is essential. While larger volumes can be mixed using mixers, smaller volumes can be mixed manually. Gloss results for each product show variation due the chemistry and formulation of the finished product. As an example for Iba Kimya Series,

Series	IBAFROST	Gloss (60°)
FF35...189GLX	-	88 – 98 gloss
FF35...189GLX	+10%	40 – 60 gloss
FF35...189GLX	+30%	5 – 40 gloss
PE54...189GLX	-	88 – 98 gloss
PE54...189GLX	+10%	60 – 80 gloss
PE54...189GLX	+30%	20 – 60 gloss

Attention! This table is only as an example, customer should try different addition ratios between 5 – 30% for each product to achieve the desired gloss value. Please read “Precautions and Limitations”.

Product Properties

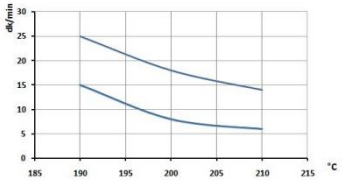
UV Resistance	Good UV resistance.
Flow out	Very good
Surface	Clear Matt CM
Specific gravity	1.2 gr/cm3
Shelf Life	12 months (< 30°C and < 50% RH)

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Application Data

Application	Corona/Tribo (Can be applied by tribo guns if product code has "T" for the 6th character)	
Curing	200°C 10 minutes recommended	
	Metal Temperature (°C)	Time (minutes)
	190	15-25
	200	8-18
	210	5-14
Film Thickness	60-80 µm (recommended)	



Theoretical cons. This value will vary due to the specific gravity of the finished product to be added.

Coating Properties

Test results shown below are based on 0.5 mm steel with 60µ applied powder coatings.

Direct Impact	>10 kgcm	(ISO 6272-2)
Reverse Impact	>10 kgcm	(ISO 6272-2)
Buchholz Hardness	>90	(ISO 2815)
Conical Mandrel	< 20 mm	(ISO 6860)
Cross Hatch Adhesion	Gt:0	(ISO 2409)

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, IBAFROST 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.
The heat up rate of components in the curing oven may influence gloss and flow out difference.
Addition of IBAFROST may lower the hiding powder of the product.
It is recommend to add up to 30% of IbaFrost. For higher addition ratios, hiding power and color properties should be checked carefully.
Gloss level is directly influenced by the chemistry of the finished product which will be mixed with IBAFROST. It is strongly recommended to check for different additon ratios to achieve the desired gloss value.
Since curing schedule for IBAFROST is 200°C 10 minutes, taking into account of the mixing product's curing schedule, the mixed product should be cured, and then the adhesion, impact resistance and curing level by DSC scan tests are advised to check the curing of the final product.
Not recommended for architectural applications.

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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.