

DESCRIPTION

This formula is a high-temperature silicone system developed from a proprietary blend of resins and pigments to provide service up to 800°F (427°C). This is designed to be a low-gloss textured black coating for steel and aluminum substrates. High-temperature silicone systems are designed to have long-term performance at service temperatures while maintaining color, gloss, film integrity and hardness. Due to the nature of materials within this formula that provide texture and heat resistance, it is recommended for interior use only.

Product Benefits

- Enhanced charging and handling characteristics
- Provides excellent texture over a wide range of film thickness
- Good long-term performance at 800°F (427°C) while maintaining color, gloss and film integrity.
- Designed to be more compatible and to reduce cross contamination with other coatings*

SPECIFICATIONS

Cure cycle [Substrate temperature]	20 minutes @ 400°F (204°C) 12 minutes @ 425°F (218°C) 8 minutes @ 450°F (232°C)
Specific gravity	1.88 +/- 0.05
Theoretical coverage at 1 mil	103 ft. ² / lb.
Film builds between	1.80 and 2.80 mils
Recommended at	2.0 mils
Coverage at recommended mils	51.5 ft. ² / lb.

Heavier film builds are not recommended.

TYPICAL PROPERTIES

Adhesion (ASTM D3359)	4B-5B
Gloss 60° (ASTM D523)	3-10
Impact Resistance (ASTM D2794-90)	80D/20R
Pencil Hardness (ASTM D3363)	>2H

PERFORMANCE TESTING

Continuous testing for 48 hours at 800°F (427°C) shows these products hold gloss, color and physical integrity at this service temperature. Testing meets specific performance requirements for several barbeque manufactures.

SURFACE PREPARATION

High temperature coatings require cleaner substrates to maintain a good bond between metal and coating. Abrasive media blast is an excellent method of surface preparation. Chemical pretreatments are effective, but must be rinsed to a clean surface with no dirt or cleaner residue. *Phosphate pretreatments have their own temperature limits that must be observed.* Contact your chemical pretreatment supplier. Also substrates have limits that must be observed.

APPLICATION

Room temperature 77°F (25°C) electrostatic application is recommended. Reduced voltages (45 – 60kV) can improve coating film thickness uniformity.

FINISHED PRODUCT HANDLING

The finished coated product is not as tough as standard powder coatings. Care must be exercised in handling and packing to ensure that finish is not damaged.

PRECAUTIONS

Read and understand the MSDS before using. This product is more temperature sensitive than normal powders and should be used at temperatures below 77°F (25°C). This product is more susceptible to moisture than other powder products. Because of the electrostatic properties of this powder a fluidizing feed hopper with higher air flow must be used.

**We recommend testing for compatibility with other products that you use before purchasing.*

STORAGE

This product should be stored at temperatures below 77°F (25°C) for up to 6 months. Under carefully controlled conditions, shelf life may be extended.

LIMITATIONS

The technical data and suggestions for use in this product data sheet are currently correct to the best of our knowledge, but are subject to change without notice. Because application and conditions vary, and are beyond our control, we are not responsible for results obtained in using this product, even when used as suggested. The user should conduct tests to determine the suitability of the product for the intended use. Our liability for breach of warranty, strict liability in tort, negligence or otherwise is limited exclusively to replacement of the product or refund of its price. Under no circumstance are we liable for incidental and consequential damages.

Supersedes previous data sheets for this product.
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