Vibratory Feeder Bowl Coatings

EFEX

EFEX (abcite/surlyn) is a functionalized polyethylene copolymer-based thermoplastic powder coating formulated from the base product Polyarmor Food Grade® specially developed for excellent corrosion protection with high impact strength and good weathering capability. KECO has used this coating on many different applications with excellent success over the years. Our Salt-N-Pepper Color is very popular and this coating force cures at 450F. Efex ™ meets FDA standards for direct food contact and has USDA compliance for "within the product zone" applications. Key characteristics include:

- Excellent corrosion resistance (>4000hr. in salt spray)
- Wide range of colors (salt-n-pepper, black, gray, white,)
- Good adhesion without primer
- High impact strength, chip resistance, and elongation
- Excellent chemical resistance
- Wide thickness range (.008" up to .030")
- Easy to repair
- No organic solvents
- Excellent edge coverage
- Fairly smooth coating with a hardness of 58 (Unit-Shore D)
- Can be combined with a plasma coating to add texture
- Maximum temperature range (200°F Continuous)

K-Kote & K-Kote+

K-Kote is a urethane coating that provides excellent wear properties and excellent noise abatement. This coating can be textured to provide additional grip for heavy or oily parts. K-Kote is an air cure coating which ***does require a 72hr full cure cycle,*** after application***.*** It can also be used to contain Tungsten Carbide to add further wear which adds the "+" symbol to the name. K-Kote is not FDA approved. Key characteristics include:

- Excellent corrosion resistance
- Colors (black)
- Excellent adhesion
- High impact strength
- Good chemical resistance
- Excellent edge coverage, but not a real smooth coating.
- Can achieve large thickness range (.040-.050, as well as .125 in some applications!)
- Maximum temperature range (-70°F-180°F Continuous)
- ***Add Tungsten Carbide for additional wear (K-Kote+)***

KECO 100

KECO 100 is a dry lubricant designed for use under conditions of moderate abrasion and where nonstick properties contribute to product performance. It is a one-coat Teflon-S which works great for feeding small lightweight parts which require release characteristics. KECO 100 does require a force curing cycle at 650F. Key characteristics include:

- Good non-stick characteristics
- Excellent pricing
- Range of colors (black, green)
- Good chemical resistance
- Great coverage of complex shapes
- Available in FDA approved coatings (21 CFR 175.300)
- Thin coating films (.0008"-.0015" thickness)
- Maximum temperature range (425°F Continuous)

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KECO 100P

KECO 100P is a two part composite Teflon coating with excellent release characteristics and a smooth durable finish. It is very slick and is the best releasing coating KECO offers. KECO 100P is force cured at 725F and works great for lightweight to medium parts. Key characteristics include:

- Excellent chemical stability, electrical properties, and mechanical strength
- Range of colors (black, green-primers, sparkle clear–topcoat)
- Good corrosion properties
- Great coverage of complex shapes with a hardness of 55-57D
- Available in FDA approved coatings (21 CFR 175.300)
- Thin coating films (.001”-.003”)
- Maximum temperature range (500°F Continuous)

NORMAC

NORMAC is called upon continuously to resist tearing, chipping, grinding, and pounding. NORMAC provides excellent abrasion resistance and excellent noise reduction. It is the No. 1 coating in Korea, Japan, Taiwan, Singapore, China, and Germany as well as in North America for vibratory feeding bowls. NORMAC is a fairly smooth air cure coating which ***does require a 72hr full cure cycle***, after application. Key characteristics include:

- Excellent adhesion and impact strength
- Noise reduction properties
- Hardness of 90 Shore A
- Color (glossy green, white, black, gray – red, blue, orange, yellow special order)
- Good chemical resistance
- Excellent edge coverage
- Excellent corrosion resistance
- Large thickness range (.020”-.040”)

KECO 600SS

KECO 600SS is a stainless steel wire applied coating that provides great wear properties, texturing, and grip to medium weight and/or oily parts. It can be applied semi-smooth to very rough and can be used to build up under sized parts. This coating is used a lot for small parts that need grip but can withstand the small jagged edges which may cause light scratches. KECO 600SS is not FDA approved. Key characteristics include:

* Semi-smooth surface (180-220 grit) to a very rough surface (36-24 grit)
* Great wear resistant coating (without non-stick capabilities)
* Excellent resistance and abrasion
* Excellent impact resistance
* Thickness range build up as needed (from .002”-.030”)
* Range of colors (Silver)
* Temperature data (stainless steel melts at over 4,000°F)

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KECO 600TCC

KECO 600TCC is a plasma sprayed coating that contains Tungsten Carbide Cobalt for excellent wear properties. Although it has a slight texture to it, this is not a key characteristic that will last. Tungsten is also brittle and can be chipped if heavy parts are directly dropped on it. KECO 600TCC is best used in applications where bowls are simply wearing out and no sound properties or release is warranted. KECO 600TCC can also be used in conjunction with KECO 600SS to provide a durable textured surface. This is not an FDA approved coating. Key characteristics include:

* Medium smooth surface finish
* Excellent wear resistance
* Thickness range (.003"-.010")
* Color (silver/brown)

KECO 800

KECO 800 is a PFA/PTFE blend with outstanding durability and similar properties to KECO 100P, plus it is electro-conductive (10^6 ohms Resistance). It is effective in eliminating static charge build-up and is used in a wide variety of applications by KECO. This coating is not FDA approved. For key characteristics, see KECO 100P information.