

PURE EPOXY

Hard Durable Industrial Epoxy Powder Coating

TDS for GCE5015SG

DESCRIPTION

Genesis GCE5015 SG is a pure epoxy powder coating formulated to provide a hard, durable protective finish with excellent adhesion and chemical resistance. It offers good electrostatic charging and transfer efficiency and is intended primarily for indoor industrial applications where long-term exterior weathering is not required.

USES

- General industrial components requiring a durable epoxy finish
- Household goods and indoor metal products
- Laboratory instruments, exercise equipment and display racks
- Automotive and garden equipment applications stated in the source TDS

ADVANTAGES

- Hard and durable protective epoxy finish
- Excellent adhesion and chemical resistance
- Good electrostatic charging and transfer efficiency
- Suitable for manual or automatic spray equipment
- Good resistance to dilute acids, alkalis and oils at normal temperatures

COMPLIANCE & CERTIFICATIONS

Product grade: Pure Epoxy powder coating.
Referenced test methods: ASTM methods stated in this TDS.
Supporting documents: Current TDS and MSDS/SDS.
Cure verification: Source also states 200 deg C / 20 min in application text; QC confirmation is required.

TYPICAL PROPERTIES

Product family	Pure Epoxy
Chemical type	Pure Epoxy
Color	5015
Film thickness	250-350 microns
Gloss @ 60 deg	75 +/- 5
Particle size	Electrostatic spray
Density	1.6 +/- 0.1 g/cm3
Shelf life	12 months
Storage	<25 deg C, dry and cool
Coverage	7-10 m2/kg
VOC	Not stated

CURE PARAMETERS

Substrate / object temperature	Curing time
180 deg C	15 minutes
190 deg C	Not stated
200 deg C	10 minutes

Use the cure schedule stated in the technical table. The separate 200 deg C / 20 min source statement should be confirmed by QC before customer issue.

PERFORMANCE TESTS

Adhesion (D-3359-93)	0
Pencil hardness (D-3363-00)	H to 2H
Impact (D-2794-93)	Pass
Flexibility (D-522-93a)	Pass
Salt spray (B-117-97)	Pass, 700 hrs
Acetic acid salt spray	Pass, <16 mm2 / 10 cm
Constant humidity (D-2247-94)	Pass
Overbake stability (D-2454-91)	Very Good

Salt spray result includes no corrosion creep and less than 1/16 inch undercoating after 700 hours exposure. Constant humidity result includes no corrosion area greater than 1 mm from the scribe.

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SURFACE PREPARATION

For maximum protection, steel components should be properly cleaned and pretreated before powder coating. The source TDS recommends a full multi-stage zinc conversion coating or a suitable zinc sulphate pretreatment, with sandblasting where required. Detailed advice should be obtained from the pretreatment supplier.

Steel	Zinc phosphate / zinc conversion or sandblasting
Zinc coated steel	Zinc phosphate or chromate
Aluminum	Chromate conversion
Final rinse	Normal water

The object should be tested at 20 deg C. Pretreatment quality directly affects coating performance.

APPLICATION METHOD

- Apply by manual or automatic electrostatic spray equipment.
- Unused powder may be reclaimed using suitable equipment and recycled through the coating system.
- Use primarily for indoor applications unless a suitable exterior product is selected.
- Ensure the substrate is clean, dry and properly pretreated before coating.

RECOMMENDED SYSTEM

Substrate prep.	Clean, pretreated steel
Powder coating	Genesis GCE5015 SG
Recommended DFT	250-350 microns
Curing	180 C/15 min; 200 C/10 min

SAFETY PRECAUTIONS

- Do not eat, drink or smoke while using the product.
- Avoid breathing dust. Use suitable respiratory protection where ventilation is insufficient.
- Use safety eyewear, protective clothing and suitable industrial gloves.
- Prevent dust concentrations above flammable, explosive or occupational exposure limits.
- Keep away from heat, sparks, open flame and direct sunlight.

STORAGE & SHELF LIFE

- Store in dry and cool conditions below 25 deg C.
- Keep containers closed and protect the powder from heat, moisture and contamination.
- Shelf life is 12 months when stored under the recommended conditions.
- Reseal opened containers carefully before storage.

TRANSPORT & ENVIRONMENTAL INFORMATION

Hazard classification	Refer to MSDS/SDS
Environmental classification	Refer to MSDS/SDS
Ignition temperature	Not stated
Transport	Refer to MSDS/SDS
Drain precaution	Refer to MSDS/SDS

NOTE

The information in this Technical Data Sheet is based on current product data and experience and is not exhaustive. Use for purposes not specifically recommended requires written confirmation from Genesis. Final performance depends on substrate quality, pretreatment, application and curing conditions. Product information may be updated as part of continuous development. Refer to the current MSDS/SDS for safety information.

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