

Statguard® Conductive Acrylic Paint Application Instructions



Made in the
United States of America



Figure 1. Statguard® Conductive Acrylic paint.

Test Patch Requirement

A test patch on new applications is required to receive a full product warranty.

Prior to the shipment of your Statguard® Conductive Acrylic Paint, Desco Industries Inc. (DII) will provide samples and technical documentation for installing the test patch. The test patch will allow for a full evaluation of the floor preparation and of our Statguard® Conductive Acrylic Paint, performance features to include color, adhesion, physical properties and electrical resistance.

Test Patch application instructions are located in the Surface Preparation section. Please contact your customer service representative to organize a test patch kit.

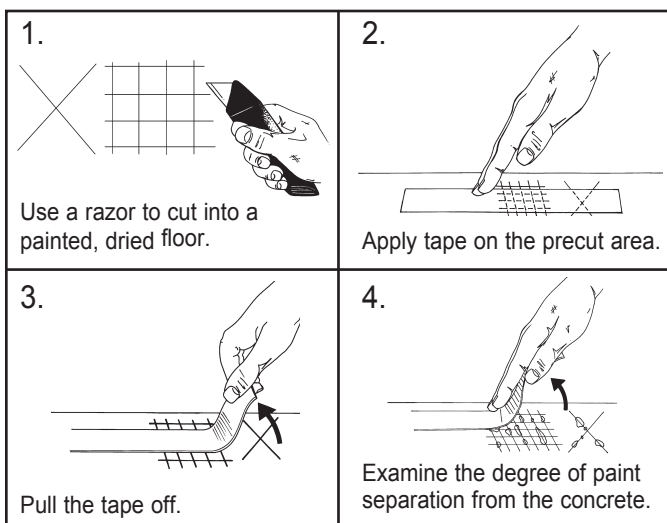


Figure 2. Adhesion test on the painted floor.

Allow newly applied paint to dry a minimum of 48 hours before proceeding with the test. At humidity levels over 55% RH, allow 72 hours of drying time before testing. Use a razor to cut a cross or a few perpendicular lines over a 3" by 3" (75 mm by 75 mm) area on several spots of the thoroughly dried area. (See Figure 2)

Use a piece of masking tape to cover the marked area. Make sure the tape is thoroughly adhered to the test area. Pull the tape off the surface and examine the amount of paint which has peeled off during the test. If any significant portion is transferred to the tape, better surface preparation (acid etching, cleaning or sanding) should be done on the substrate to enhance the adhesion.

If your test patch is on a bare or prepped concrete we recommend using Baril WB 500 Water Base Primer / Tinted Light Grey to achieve proper performance of the Statguard® Conductive Paint properties. Please contact Baril at 260-665-8431 for additional product details.

Description

Statguard® Conductive Acrylic Paint is a one part floor coating formulated to produce controlled dissipation of static electrical charges. Statguard® Conductive Acrylic Paint is very effective as a static control floor coating for electronics manufacturing, assembly, and storage. It is available in grey (similar to PMS 432) in 1 gallon (3.8 litres) containers and in 5 gallon (19 litres) containers; and in light grey (similar to PMS 429) in 5 gallon (19 litres) containers. The color may vary between production lots.

NOTE: Statguard® Conductive Acrylic Paint should not be allowed to freeze. Store at temperatures above 45°F (7°C) as stated in the Safety Data Sheet. We recommend that these products be stored in their original containers and be sealed when not in use. We cannot guarantee performance if not properly mixed or used within 3 months from date of sale.

Surface Preparation

The two most important characteristics for successful application of Statguard® Conductive Acrylic Paint applications are:

1. The surface must be clean, dry, dull, and smooth. Heavy dirt or grease build-up should be removed with a stripper or degreaser. Cleaning methods range from: sweeping, vacuuming, wire brush, air-blasting, water jet, steam cleaning, or stripping.
2. If the surface is concrete, it must be in good condition.

CONCRETE:

New concrete should cure for a minimum of 28 days before coating with Statguard® Conductive Acrylic Paint. Not all concrete is created equal -- concrete surfaces vary widely in physical and chemical qualities due to the way the concrete was formulated, poured, or finished.

There are several methods to prepare problem concrete. Each method depends on the condition of the concrete. Adhesion properties can be increased by profiling or roughing the surface through acid etching, rotary drum sanding, scarifying, or mechanically scratching the surface.

You must test for moisture in the concrete. If moisture is present, the floor should not be coated until the source of the moisture is determined and eliminated.

PRIMING:

Statguard® Conductive Acrylic Paint bonds well to clean, dry concrete. However if the sub floor is bare or prepped concrete we recommend using the Baril WB 500 Water Base Primer / Tinted Light Grey to achieve proper performance of the Statguard®

Conductive Paint properties. Please contact Baril at 260-665-8431 for additional product details.

Installing Statguard® Conductive Paint on improperly prepared surfaces will void product warranty and cause product failure.

PREVIOUSLY PAINTED SURFACES:

The surface should be clean and free of dust, grease, wax, and soap residue. Wash with ordinary detergent and water. Rinse thoroughly with clean water and let dry. Glossy surfaces can be dulled by lightly sanding and then vacuuming and cleaning. Cracks and holes should be repaired before applying the Statguard® Conductive Acrylic Paint. Adhesion can be improved by using a standard industrial type primer.

UNPAINTED SURFACES:

Adhesion can be improved by using a standard industrial type primer. Metal should be primed with red oxide primer. Concrete, wood, plastics, and most other surfaces should be properly cleaned. Let dry and then apply Statguard® Conductive Acrylic Paint.

COVERAGE:

Statguard® Conductive Acrylic Paint will cover 300 to 400 square feet (27.87 to 37.16 square metres) at a 1 to 1.5 mil (0.0254 to 0.0381 mm) thick dry film per gallon (3.87 litres) on a smooth surface. Coverage is less on coarse or textured surfaces. Two coats are recommended to achieve maximum performance from the paint.

Application

Always use in a well ventilated area or wear a suitable respirator. Wear appropriate eye protection such as splash goggles and impervious type protection gloves to protect hands.

MIXING

1. Mix paint thoroughly before use (See Figure 3) using a 500-1500 RPM variable speed drill and paint mixing attachment or a paint mixer.

2. If the paint, after properly mixing, is not freely transferring from the roller to the floor, the Statguard® ESD paint can be thinned with water up to 10% max by volume.

- Start by slowly mixing 5% water into the master container and apply again.
- Do not add more than 10% of water to the mix.

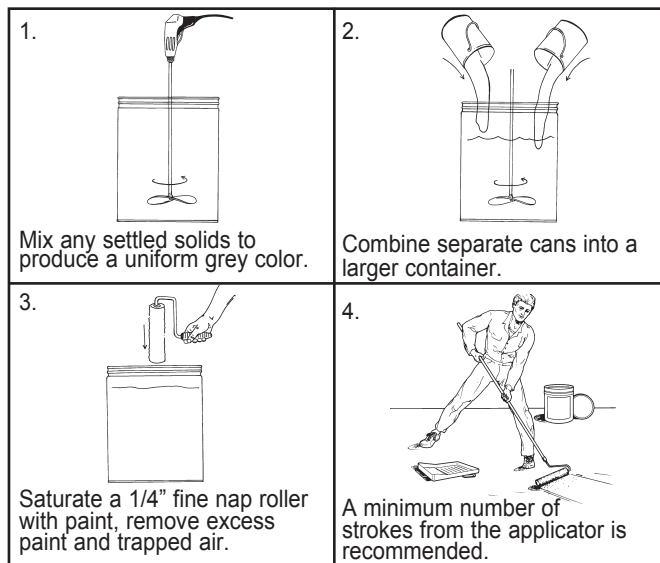


Figure 3. Paint application with roller.

APPLICATION BY ROLLER

1. Stir paint thoroughly to mix any settled solids to produce uniform grey color.

2. Combine separate cans of paint into one container to ensure uniform color distribution. It is recommended that a test area be coated to ensure that the adhesion and electrical performance of the paint is acceptable. (See Adhesion Testing, Figure 2.) If the test areas show inadequate adhesion, use an industrial floor primer/sealer.

3. Saturate a 1/4" (6.35 mm) fine nap roller or an industrial brush with paint. Remove excess paint and trapped air from the applicator by moving applicator several times in the paint tray.

4. A minimum number of strokes from the applicator on the substrate is recommended to minimize air bubbles.

APPLICATION BY SPRAY

Conventional Spray Gun: "E" fluid tip and needle and #704, 765 or 78 air gap.

Airless Spray: Spray gun and spray cap or suitable orifice diameter 0.020-0.025" (0.508-0.635 mm).

Mix paint thoroughly before using and stir occasionally when applying. No thinning necessary for spray applications. Room temperature must be above 50°F (10°C).

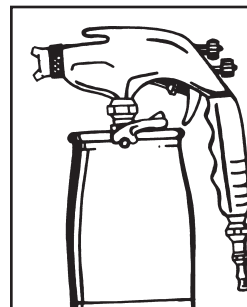


Figure 4. Spray paint application

A minimum of two coats of Statguard® Conductive Acrylic Paint is recommended for appropriate static protection.

Grounding

Conventional grounding practices like connecting coated surfaces to equipment or earth ground is recommended for meeting ANSI/ESD S20.20, EN 61340-5-1 and ISO 9000 recommendations for verifying grounds. However the following is also true of conductive Acrylic Paint flooring "Floor finishes ... function by two separate mechanisms. First, they reduce the surface's tendency to generate a static charge.

Second, they provide a path for the dissipation of charge. The charge may dissipate over the surface of the finish or it may dissipate to ground if the floor finish is grounded." [Per ESD Handbook ESD TR20.20 section 5.3.4.2]

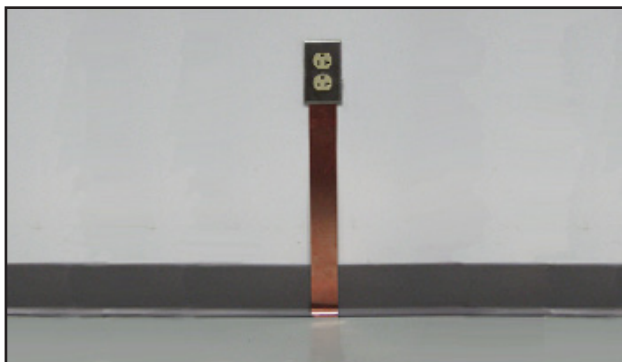


Figure 5. ESD Floor Ground Strip

Four examples on how to achieve connection to the Conductive Acrylic Paint surface are:

- (1) Install a Statguard® ESD Floor Ground Strip per 1,000 square feet throughout the installation.
- (2) Bring Conductive Acrylic Paint coating in contact with a building ground rod.
- (3) Install a grounded lag bolt to the floor so the bolt comes in contact with the Conductive Acrylic Paint when screwed in place.
- (4) Bolt a grounded metal plate to the Conductive Acrylic Paint surface.

Statguard® Conductive Acrylic Paint applied in excess of 50 square feet (4.6 square meters) enable the surface to dissipate 5000 volts to zero in less than 0.01 seconds per FTMS 101C, Method 4046 without conventional grounding grids or wires. The conductive coating becomes a capacitive reservoir that effectively drains static charges. ESD footwear must be used in conjunction with Statguard® Conductive Acrylic Paint to ground personnel.

If footwear/flooring is being used as a primary ground to meet the personnel grounding requirements of ANSI/ESD S20.20 then we would advise to ground the Conductive Acrylic Paint for testing and verification of a ground point. If the footwear/flooring are being used as a secondary or back up grounding for personnel then grounding practices like electrically connecting Statguard® Dissipative Floor Finish to ground is only required for applications of Conductive Acrylic Paint that are less than 50 square feet. For applications that are greater than 50 square feet, the capacitance of Conductive Acrylic Paint is several hundred times greater than the capacitance of the human body model at 100pF. The difference in capacitance is so great that the Statguard® treated floor acts as a second capacitor in series with the person and a human body charge even as great as 5,000 volts will have a resulting voltage well below the 100V limit peak of ANSI/ESD S20.20. The surface resistance of the Statguard® treated floor will decay a 5000v charge to zero in .05 sec. per FTMS 101B, Method 4046. Statguard® has substantially less than the maximum static decay time of 0.1 seconds.

Clean Up

Wash applicators with water immediately after painting. Remove paint spills promptly with a wet cloth. Close container after each use. Keep container from freezing.

Finish/Sealer

Desco Statguard® Conductive Acrylic Paint can be overcoated or sealed with Statguard® Floor Finish static dissipative coating to increase durability, enhance shine, improve ease of maintenance, and seal out dirt and debris. **Because of the matte finish of Desco Statguard® Conductive Light Grey Acrylic Paint it is recommended that Statguard® Floor Finish be applied for gloss and ease of maintenance.** Statguard® Dissipative Floor Finish is a polymer base floor finish/sealer that can be used as a top coat on the Conductive Acrylic Paint. Surface Resistance will then be in the 1×10^5 to $< 1 \times 10^8$ ohm range. Two coats are recommended. Three coats will improve electrical properties, durability and reduce frequency of maintenance. Apply Statguard® Floor Finish after 48-72 hours after last coat of paint. Paint becomes dry to the touch, but is not fully cured to accept a finish coat until this time. If you notice the paint color coming off when finishing, it is too soon to apply. Please wait for the paint to cure fully. Ask for Technical Bulletin [TB-7042](#) for more information on Statguard® Floor Finish.

Maintenance

Use sweeper, vacuum, or broom to remove dirt. Allow two weeks drying time before using a damp mop to clean the coated area. Do not use abrasive cleaners, floor rinse, or scrubbing machine to clean the floor.

Drying Time

It is recommended that Statguard® Conductive Acrylic Paint be allowed to dry at a temperature in excess of 45°F (7°C) until dry. A minimum of 1 to 2 hours drying time should be allowed before applying the second coat. The 2nd coat should be allowed to cure for 24 hours before taking electrical readings. After 24 hours readings taken will be reflective of the long term electrical characteristics of the material.

Physical Properties

Type:

Water base acrylic coating

Color:

Grey, Light Grey

Vehicle Type:

Pure acrylic resin waterborne

Pigment Type:

Lead free, iron oxide, titanium dioxide and extenders

Viscosity:

Light Grey 26" #3 Zahn cup

Grey 23" #3 Zahn cup

Solids:

Light Grey 24% by volume

Grey 20% by volume

Coating Density:

Light Grey 9.54 lbs per gallon

Grey 10.27 lbs per gallon (1.0 kilograms per litre)

Gloss:

Light Grey 2 @ 60°F

Grey 22 @ 60°F (30 @ 60°C)

Temperature Range:

Wet: 33°F - 110°F (1°C - 43°C)

Dry: 33°F - 300°F (1°C - 149°C)

(300°F [149°C] not continuous)

Electrical Properties

Static Charge Decay:

<0.01 sec. per FTMS 101B, Method 4046

Charge Generation:

Zero per AATCC Step Test, Method 134-1979

Rtt:

1×10^4 to $< 1 \times 10^7$ ohms per ANSI/ESD STM 7.1

Rtg:

1×10^4 to $< 1 \times 10^7$ ohms per ANSI/ESD STM 7.1

Testing

Test patch areas should be tested for adhesion and electrical performance of the paint before applying paint to the entire floor. To best ensure consistent results, the test should be done at various locations.

ELECTRICAL PROPERTIES:

Test the surface, point-to-point resistance, (R_{tt}) and resistance-to-ground (R_{tg}) properties of coated area per ANSI/ESD STM7.1 test method and/or ESD TR53. For quick and easy verification of the paint's electrical properties, we recommend the use of our a Surface Resistance Test Kit (Figure 6). For more information contact any of the Desco Industries Inc. companies.

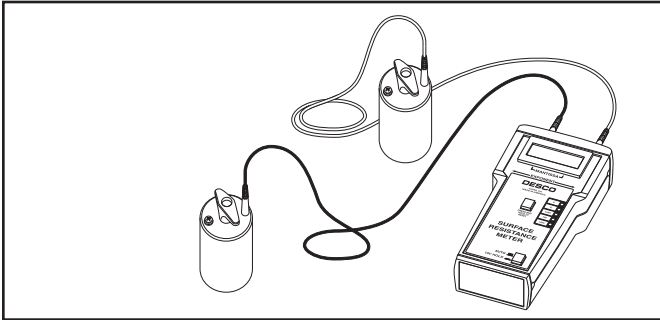


Figure 6. Electrical testing on the painted floor using a Surface Resistance Test Kit.

RoHS 2, REACH, and Conflict Minerals Statement

None of the RoHS 2 restricted materials, or REACH substances of very high concern as of 2015/06/15, or Conflict Minerals are intentionally added in manufacturing this product. Ref: European Union Directive 2011/65/EU and Regulation (EC) No. 1907/2006/CE.

[See Desco Insutries, Inc. Limited Warranty.](#)

Limited Warranty, Warranty Exclusions, Limit of Liability and RMA Request Instructions

See Desco Industries Inc. Warranty

<http://www.descoindustries.com/Warranty.aspx>

For Statguard® Conductive Light Grey Acrylic Paint:

DESCO

for service and support in North America

5 Gallon [10410](#)

STATGUARD FLOORING

for service and support in North America

1 Gallon [46056](#)

5 Gallon [46051](#)

CHARLESWATER

for service and support in the United Kingdom

19 Litre [71013](#)

Vermason

for service and support in the United Kingdom

19 Litre [210220](#)

DESCO ASIA

for service and support in Asia

19 Litre [10410](#)

DESCO JAPAN

for service and support in Japan

19 Litre [10410](#)

For Statguard® Conductive Dark Grey Acrylic Paint:

DESCO

for service and support in North America

1 Gallon [10408](#)

5 Gallon [10409](#)

STATGUARD FLOORING

for service and support in North America

1 Gallon [46055](#)

5 Gallon [46041](#)

CHARLESWATER

for service and support in the United Kingdom

3.8 Litre [71016](#)

19 Litre [71017](#)

Vermason

for service and support in the United Kingdom

3.8 Litre [210220](#)

DESCO ASIA

for service and support in Asia

3.8 Litre [10408](#)

19 Litre [10409](#)

DESCO JAPAN

for service and support in Japan

3.8 Litre [10408](#)

19 Litre [10409](#)

Safety Data Sheet

May be used to comply with ANSI Z400.1-2004, 29 CFR 1910.1200, Regulation (EC) No 1272/2008 (CLP Regulation), and GHS. Standard must be consulted for specific requirements.

NFPA Designation 704

Degree of Hazard

4 = Extreme

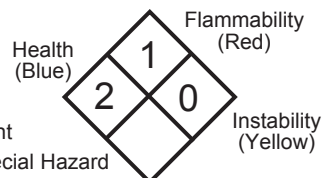
3 = High

2 = Moderate

1 = Slight

0 = Insignificant

Special Hazard



STATGUARD® Conductive Acrylic Paint

HMIS Rating: Health: 2 Reactivity: 0 Flammability: 1 Personal Protection: X

SECTION 1 - IDENTIFICATION OF THE PRODUCT AND OF THE ENTERPRISE

Product Name/Identity: Statguard® Conductive Acrylic Paint
Chemical name: Light Grey Paint, Conductive

Manufacturer: Desco Industries, Inc
Address: One Colgate Way
Canton, MA 02021

Telephone: 781-821-8370
Emergency Number: 781-821-8370

SECTION 2 - HAZARDS IDENTIFICATION

Carcinogenicity	Category 1A
Specific Target Organ Toxicity (Repeated Exposure)	Category 2
Acute Toxicity	Category 4
Skin Corrosion/Irritation	Category 2
Eye Irritation	Category 2A
Skin sensitization	Category 1

Labelling:

Symbol: Health Hazard, Exclamation Point

Signal word: Danger

Hazard statement: Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
May cause cancer.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wear protective gloves.
Wear eye protection / face protection.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing must not be allowed out of the workplace.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Specific treatment (see on this label).
If on skin: Wash with plenty of water.
If swallowed: Call a poison center/doctor if you feel unwell.
Wash contaminated clothing before reuse.
If exposed or concerned: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.

Get medical advice/attention if you feel unwell.
Rinse mouth.
Take off contaminated clothing and wash it before reuse.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/
international regulations.

SECTION 3 - INFORMATION ON INGREDIENTS/COMPOSITION

Hazardous Ingredients:	CAS No.	Weight %
Epoxy Ester (Trade secret)		5 - 25 %
2-butoxyethanol	111-76-2	1 - 25 %
Mica	12001-26-2	1 - 25 %
TIN ANTIMONY OXIDE	68187-54-2	1 - 25 %
Titanium Dioxide	13463-67-7	1 - 25 %
Quartz (SiO ₂)	14808-60-7	1 - 25 %
Butan-1-ol	71-36-3	1 - 5 %
Manganese Carboxylate	15956-58-8	0 - 1 %

SECTION 4 - FIRST AID MEASURES

General information:	Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
Eye Contact:	Rinse opened eye for several minutes under running water.
Skin Contact:	Generally the product does not irritate the skin.
Ingestion:	Immediately call a doctor.
Inhalation:	Supply fresh air; consult doctor in case of complaints.

SECTION 5 - EXTINGUISHING MEASURES

Proper Extinguishing Media:	CO ₂ , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Protective Clothing:	No special measures required.

SECTION 6 - MEASURES TO EXPOSURE OF PRODUCT

Personal Precautions:	N/A.
Environmental Precautions:	Do not allow to enter sewers/ surface or ground water.
Cleaning / Collecting Procedures:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

SECTION 7 - HANDLING AND STORAGE

Handling:	Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Protect from heat.
Storage:	Storage Temperature: Max. 49°C/120°F-1°C/34°F Keep from freezing. Protect from heat and direct sunlight

SECTION 8 - EXPOSURE CONTROL/PERSONAL EXPOSURE

Exposure Limits

Hazardous Ingredients:	CAS No.	OSHA PEL	ACGIH TLV
2-butoxyethanol	111-76-2	240 mg/m ³ , 50 ppm	97 mg/m ³ , 20 ppm
Mica	12001-26-2	20 mppcf ppm	3* mg/m ³
Quartz (SiO ₂)	14808-60-7		0.025* mg/m ³
butan-1-ol	71-36-3	300 mg/m ³ , 100 ppm	61 mg/m ³ , 20 ppm

*as respirable fraction

Personal protective equipment (PPE)

Respiratory Protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Hand Protection: Protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Goggles recommended during refilling.

Work/Hygienic Practices: Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid.
Color:	Light grey.
Odor:	Characteristic.
Odour threshold:	N/A.
pH-value:	N/A.
Melting point/Melting range:	N/A.
Boiling point/Boiling range:	100 °C (212 °F)
Flash point:	94 °C (201 °F)
Flammability (solid, gaseous):	N/A.
Ignition temperature:	240 °C (464 °F)
Decomposition temperature:	N/A.
Auto igniting:	Product is not self igniting.
Danger of explosion:	Product does not present an explosion hazard.
Lower:	N/A.
Upper:	N/A.
Vapor pressure at 20 °C (68 °F):	23 hPa (17 mm Hg)
Density at 20 °C (68 °F):	1.19 g/cm ³ (9.931 lbs/gal)
Relative density:	N/A.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	N/A.
Viscosity:	N/A.
VOC content:	126.0 g/l / 1.05 lb/gl

SECTION 10 - STABILITY AND REACTIVITY

Stability/Reactivity	Stable product at normal conditions.
Conditions to avoid	Temperatures above 49°C/120°F and below 1°C/34°F, Open flames and sparks.
Materials to avoid:	N/A.
Hazardous Decomposition:	N/A.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Effects:

Eyes:	No irritant effect.
Skin:	No irritant effect.
Sensitization:	No sensitizing effects known.

Carcinogenic Categories:

IARC (International Agency for Research on Cancer)

Chemical	Rating
111-76-2 2-butoxyethanol	3
titanium dioxide	2B
Quartz (SiO ₂)	1

NTP (National Toxicology Program)

Chemical	Rating
14808-60-7 Quartz (SiO ₂)	K

SECTION 12 - ECOLOGICAL INFORMATION

Mobility:	N/A.
Degradability:	N/A.
Bioaccumulation:	N/A.
Ecotoxicity:	N/A.
Reference to BimSchV:	N/A.
General notes:	Water hazard class 1 (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13 - DISPOSAL CONSIDERATIONS

Product:	Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
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SECTION 14 - TRANSPORT INFORMATION

This product is not classified for transport under ADR/IMDG regulations.

SECTION 15 - REGULATORY INFORMATION

Section 313 (Specific toxic chemical listings):

111-76-2 2-butoxyethanol
71-36-3 butan-1-ol

TSCA (Toxic Substances Control Act):

111-76-2 2-butoxyethanol
68187-54-2 TIN ANTIMONY OXIDE
13463-67-7 titanium dioxide
14808-60-7 Quartz (SiO₂)
71-36-3 butan-1-ol
68390-98-7 Quaternary ammonium compounds, benzyl-C14-18-alkyldi
methyl, chlorides
15956-58-8 Manganese Carboxylate
366-18-7 2,2'-bipyridyl
7732-18-5 water, distilled, conductivity or of similar purity

Proposition 65:

Chemicals known to cause cancer:

13463-67-7 titanium dioxide
14808-60-7 Quartz (SiO₂)

Carcinogenic categories:

EPA (Environmental Protection Agency):

111-76-2 2-butoxyethanol NL
71-36-3 butan-1-ol D

SECTION 16 - OTHER INFORMATION

HMIS RATING: Health 2, Flammability 1, Physical Hazard 0, Personal Protection B

NFPA RATING: Special Hazard: N/A, Health 2, Flammability 1, Instability: 0

SDS Updated: 2015-05-27

Disclaimer

OTHER INFORMATION: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

Safety Data Sheet

May be used to comply with ANSI Z400.1-2004, 29 CFR 1910.1200, Regulation (EC) No 1272/2008 (CLP Regulation), and GHS. Standard must be consulted for specific requirements.

NFPA Designation 704

Degree of Hazard

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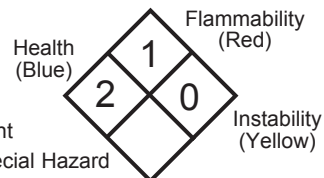
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0 = Insignificant

Special Hazard



STATGUARD® Conductive Acrylic Paint

HMIS Rating: Health: 2 Reactivity: 0 Flammability: 1 Personal Protection: X

SECTION 1 - IDENTIFICATION OF THE PRODUCT AND OF THE ENTERPRISE

Product Name/Identity: Statguard® Conductive Acrylic Paint
Chemical name: Dark Grey Paint, Conductive

Manufacturer: Desco Industries, Inc
Address: One Colgate Way
Canton, MA 02021

Telephone: 781-821-8370
Emergency Number: 781-821-8370

SECTION 2 - HAZARDS IDENTIFICATION

Carcinogenicity	Category 2
Acute Toxicity	Category 4
Skin Corrosion/Irritation	Category 2
Eye Irritation	Category 2A
Skin sensitization	Category 1

Labelling:

Symbol: Health Hazard, Exclamation Point

Signal word: Warning

Hazard statement: Harmful if swallowed.
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of causing cancer.

Precautionary statements:

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
Avoid breathing dust/fume/gas/mist/vapors/spray
Wear protective gloves / eye protection / face protection.
Wear protective gloves.
Wear eye protection / face protection.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing must not be allowed out of the workplace.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Specific treatment (see on this label).
If on skin: Wash with plenty of water.
If swallowed: Call a poison center/doctor if you feel unwell.
Wash contaminated clothing before reuse.
IF exposed or concerned: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.
Rinse mouth.
Take off contaminated clothing and wash it before reuse.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/
international regulations.

SECTION 3 - INFORMATION ON INGREDIENTS/COMPOSITION

Hazardous Ingredients:	CAS No.	Weight %
Epoxy Ester (Trade secret)		1 - 25 %
Titanium Dioxide	13463-67-7	5 - 25 %
2-Butoxyethanol	111-76-2	1 - 25 %
Carbon black	1333-86-4	1 - 5 %
Manganese Carboxylate	15956-58-8	0 - 1 %

SECTION 4 - FIRST AID MEASURES

General information:	Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
Eye Contact:	Rinse opened eye for several minutes under running water.
Skin Contact:	Generally the product does not irritate the skin.
Ingestion:	Immediately call a doctor.
Inhalation:	Supply fresh air; consult doctor in case of complaints.

SECTION 5 - EXTINGUISHING MEASURES

Proper Extinguishing Media:	CO ₂ , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Protective Clothing:	No special measures required.

SECTION 6 - MEASURES TO EXPOSURE OF PRODUCT

Personal Precautions:	N/A.
Environmental Precautions:	Do not allow to enter sewers/ surface or ground water.
Cleaning / Collecting Procedures:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

SECTION 7 - HANDLING AND STORAGE

Handling:	Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Protect from heat.
Storage:	Storage Temperature: Max. 49°C/120°F-1°C/34°F Keep from freezing. Protect from heat and direct sunlight

SECTION 8 - EXPOSURE CONTROL/PERSONAL EXPOSURE

Exposure Limits

Hazardous Ingredients:	CAS No.	OSHA PEL	ACGIH TLV
2-butoxyethanol	111-76-2	240 mg/m ³ , 50 ppm	97 mg/m ³ , 20 ppm
Carbon Black	1333-86-4	3.5 mg/m ³	3* mg/m ³

*as respirable fraction

Personal protective equipment (PPE)

Respiratory Protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Hand Protection: Protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Goggles recommended during refilling.

Work/Hygienic Practices: Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid.
Color:	Light grey.
Odor:	Amine-like.
Odour threshold:	N/A.
pH-value:	N/A.
Melting point/Melting range:	N/A.
Boiling point/Boiling range:	100 °C (212 °F)
Flash point:	94 °C (201 °F)
Flammability (solid, gaseous):	N/A.
Ignition temperature:	240 °C (464 °F)
Decomposition temperature:	N/A.
Auto igniting:	Product is not self igniting.
Danger of explosion:	Product does not present an explosion hazard.
Lower:	N/A.
Upper:	N/A.
Vapor pressure at 20 °C (68 °F):	23 hPa (17 mm Hg)
Density at 20 °C (68 °F):	1.21g/cm ³ (9.931 lbs/gal)
Relative density:	N/A.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	N/A.
Viscosity:	N/A.
VOC content:	90.0 g/l / 1.05 lb/gl

SECTION 10 - STABILITY AND REACTIVITY

Stability/Reactivity	Stable product at normal conditions.
Conditions to avoid	Temperatures above 49°C/120°F and below 1°C/34°F, Open flames and sparks.
Materials to avoid:	N/A.
Hazardous Decomposition:	N/A.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Effects:

Eyes:	No irritant effect.
Skin:	No irritant effect.
Sensitization:	No sensitizing effects known.

Carcinogenic Categories:

IARC (International Agency for Research on Cancer)

Chemical	Rating
2-butoxyethanol	3
titanium dioxide	2B
Carbon Black	2B

SECTION 12 - ECOLOGICAL INFORMATION

Mobility:	N/A.
Degradability:	N/A.
Bioaccumulation:	N/A.
Ecotoxicity:	N/A.
Reference to BimSchV:	N/A.
General notes:	Water hazard class 1 (Self-assessment); slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13 - DISPOSAL CONSIDERATIONS

Product:	Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
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SECTION 14 - TRANSPORT INFORMATION

This product is not classified for transport under ADR/IMDG regulations.

SECTION 15 - REGULATORY INFORMATION

Section 313 (Specific toxic chemical listings):

111-76-2 2-butoxyethanol

TSCA (Toxic Substances Control Act):

13463-67-7 titanium dioxide
111-76-2 2-butoxyethanol
1333-86-4 Carbon black
15956-58-8 Manganese Carboxylate
366-18-7 2,2'-bipyridyl
7732-18-5 water, distilled, conductivity or of similar purity

Proposition 65

Chemicals known to cause cancer:

13463-67-7 titanium dioxide
1333-86-4 Carbon black

Carcinogenic categories

EPA (Environmental Protection Agency)

111-76-2 2-butoxyethanol NL

SECTION 16 - OTHER INFORMATION

HMIS RATING: Health 2, Flammability 1, Physical Hazard 0, Personal Protection B

NFPA RATING: Special Hazard: N/A, Health 2, Flammability 1, Instability: 0

SDS Updated: 2015-05-28

Disclaimer

OTHER INFORMATION: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.