STATGUARD FLOORING

TECHNICAL BULLETIN

Installation Instructions for Statguard® Conductive Clear Adhesive

Made in the United States of America

Figure 1. Statguard® Conductive Clear Adhesive

Description:
GroundTack® is a high quality acrylic emulsion that combines the performance of a pressure sensitive adhesive with the conductive properties of proprietary Thunderon Matrix technology to create a flexible electrical ground plane beneath static control floor tiles. GroundTack® gives complete adhesive performance with lifetime conductive capabilities. It is non-hazardous, nonflammable and water resistant. It provides a strong, flexible, long lasting bond with uncompromising conductive properties. GroundTack® is designed for installation of dimensionally stable flooring materials. This adhesive can be used to install carpet tile, vinyl tile as well as rubber tile and sheet floors. Due to its pressure sensitive characteristics, GroundTack® eliminates concern about installing a non-porous backed floor covering over a non-porous substrate. This adhesive contains no hazardous or carcinogenic ingredients as defined by OSHA, Federal, State or Local regulations such as California Prop 65, M-4277 meets all flammability requirements for a Class A Flame Spread Rating as per ASTM E-84.

Physical Properties:

Base	Acrylic
Color	White Paste
Weight / Gallon	9.7 lbs.
Shelf Life	1 year at 70°F in unopened container
Freeze / Thaw	Yes - 5 cycles at 0°F
Electrical Resistance (after curing)	Rp-p < 1 x 10^6 ohms per ANSI/ESD STM7.1.

Coverage:
180 - 250 sq. ft. per gallon with a 1/16" x 1/16" x 1/16" square notch trowel. Coverage will vary based on the porosity of the sub-floor.

Preparation:
All surfaces must be clean, dry, and free of dust, grease, paints, oils, bond breakers, curing compounds, sealers, or any other foreign material which may interfere with proper adhesion. Installations over concrete substrates, whether freshly poured or old, must be tested for moisture/vapor emissions. All grade levels, whether on, below, or above grade must be tested. Tests must be performed following the protocol as outlined in ASTM F 1869 Calcium Chloride and ASTM F 2170 relative humidity test performed in situ. Results of testing should not exceed 3 lbs./24 hours/1000 sq. ft. when tested in accordance with ASTM F 1869, and not to exceed 75% RH when tested using ASTM F 2170. Store tile and adhesive at a minimum temperature of 65° F prior to, during, and 48 hours after installation.

Note: Refer to accepted industry best practices when conducting ASTM moisture vapor test results. Before conducting any moisture or vapor tests always confirm that the building is fully enclosed and has been properly acclimatized per ASTM test method requirements. Contact Statguard® if any test points exceed 75% RH per ASTM F 2170 or 3 pounds when conducting ASTM F 1869 calcium chloride testing. Contact your Statguard® representative in writing for additional information with regard to the use of GroundTack® applied directly over any topical vapor or moisture barrier at Service@StatguardFlooring.com. Residual adhesives, curing compounds and sealers, etc. must be completely removed. Cracks and uneven surfaces must be filled with cement-based patching compound.

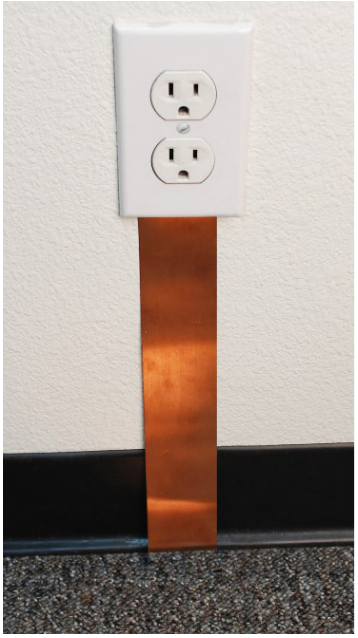
Application:
Apply using a 1/16" x 1/16" x 1/16" square notch trowel. Adhesive must be full spread to achieve complete coverage. DO NOT USE A ROLLER TO SPREAD ADHESIVE. Allow adhesive to dry to touch before putting tile in place, approximately 45-60 minutes, then roll out using a 100 pound three section roller. From the time the adhesive is allowed to dry to the time that it must be covered is approximately 3 hours.

Application Note: Before, during, and 48 hours after installation, a temperature of 70± 5°F must be maintained.

Application Directions:
1. Consult Statguard® floor material installation instructions. Refer to all manufacturers' recommendations prior to installation to determine suitability of all materials to be used, approved substrates, sub-floor preparation, etc.
2. Sub-floor must be clean, dry, smooth and free of any contamination including sealers, which may interfere with the adhesive bond.
3. Where sub-floor is extremely porous adhesive absorption may be in question. Therefore it is recommended that the sub-floor be primed with a compatible primer.
4. Refer to all floor-covering manufacturers' recommendations regarding layout, cutting, seaming and maintenance.
5. Spread adhesive using the recommended trowel. Use the dry installation method in "tile over tile" applications and for installations requiring releasability. If carpet tiles are installed "wet," a permanent bond may result.
6. Roll floor covering per manufacturers' recommendations.
7. Do not wet clean floor covering for a minimum of 60 days. This will allow the adhesive to properly cure.

Clean Up:
Remove wet adhesive immediately with a damp cloth. Use mineral spirits to remove dried adhesive.

Grounding:
Statguard recommends installing one copper grounding strip per 1,000 square feet throughout the installation. A thin coating of releasable adhesive should be applied on top of grounding strip to ensure good contact with carpet tile backing.



81524 Copper Grounding Strip in use

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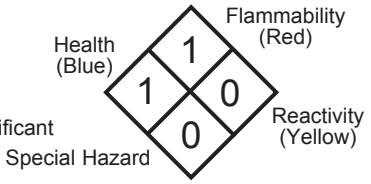
Material Safety Data Sheet
May be used to comply with ANSI Z400.1-2004, 29 CFR 1910.1200, European 2001/58/EC, REACH 1907/2006/EC, and GHS. Standard must be consulted for specific requirements.

NFPA Designation 704

Degree of Hazard
4 = Extreme
3 = High
2 = Moderate
1 = Slight
0 = Insignificant



HMIS RATING: Health: 1 Reactivity: 0 Flammability: 1 Personal Protection: B Goggles, Gloves

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name/Identity:	Statguard® Conductive Clear Adhesive
Chemical Name and Synonyms:	Adhesive blend based on acrylic copolymer dispersion
Chemical Family:	Acrylic copolymer dispersion
Molecular Formula:	Not applicable
Product Description:	Water-based acrylic adhesive
Manufactured for:	Desco Industries, Inc
Address:	One Colgate Way Canton, MA 02021
Telephone:	781-821-8370
Emergency Number:	888-255-3924 (CHEMTEL)

SECTION 2 — HAZARDS INGREDIENTS

EXPOSURE GUIDELINES
% BY ACGIH OSHA

MATERIAL	WEIGHT	CAS NUMBER	TLV	TLV-TWA	PEL-STEL
Acrylic copolymer dispersion	50-60	Proprietary	Not available	Not available	Not available
Water	35-45	7732-18-15	Not available	Not available	Not available
Propylene glycol	0.5-1.2	57-55-6	50 ppm	50 ppm	50 ppm
Conductive Fibers	1-2	Not available	Not available	Not available	Not available

SECTION 3 — HAZARDOUS IDENTIFICATIONS

EMERGENCY OVERVIEW: *Can cause eye irritation.*

POTENTIAL HEALTH EFFECTS:

EYE CONTACT:	*May cause slight irritation.*
SKIN CONTACT:	*No affect known.*
INGESTION:	*Not likely to occur. If swallowed, no side affects known. Do not ingest.*
INHALATION:	*No affect known.*

SECTION 4 — FIRST AID MEASURES

EYES:	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
SKIN:	Wash with soap and water. Get medical attention if irritation develops or persists. Immediately remove contaminated clothing.
INGESTION:	If swallowed, seek medical attention immediately. Do not induce vomiting. Can enter lungs and cause damage.
INHALATION:	Remove to fresh air. Restore breathing if necessary. Get medical attention.

DO NOT LEAVE VICTIM UNATTENDED.

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SECTION 5 — FIREFIGHTING MEASURES AND FIRE HAZARDS

OSHA FLAMMABILITY CLASS:	IIIB
FLASHPOINT:	None
LOWER EXPLOSIVE LIMIT:	Not applicable
UPPER EXPLOSIVE LIMIT:	Not applicable
GENERAL HAZARD:	Toxic gases will form upon combustion. Closed containers may explode when exposed to extreme heat. Vapours are heavier than air and may travel a considerable distance.
FIRE FIGHTING EQUIPMENT:	Respiratory and eye protection required for firefighting personnel. Full protective equipment and a self-contained breathing apparatus (SCBA) should be used in all indoor fires and any large outdoor fires.
HAZARDOUS COMBUSTION PRODUCTS:	Carbon monoxide, carbon dioxide, smoke and fumes, hydrocarbon fragments.

SECTION 6 — ACCIDENTAL RELEASE MEASURES (SPILLS OR LEAKS)

GENERAL INSTRUCTIONS:	Isolate the danger area and keep out unauthorized personnel. Stop spill if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant (see section 8). Prevent additional discharge of material. Notify the appropriate authorities immediately. Contain spilled liquid with sand, earth or other non-combustible inert absorbent material. Prevent run-off from entering storm sewers, ditches or waterways. Transfer absorbed waste material into properly identified drums. Treat waste material with same precautions as the adhesive. Do not use solvent or flammable liquid to help clean up an accidental release. Release to the environment may be reportable under environmental regulations.

SECTION 7 — HANDLING AND STORAGE

HANDLING:	Do not enter confined spaces such as tanks without following proper entry procedures as described in OSHA regulations at 29 CFR 1910.146. Do not breathe vapours. The use of respiratory protection is recommended when airborne concentrations of vapour exceed exposure guidelines. Wash thoroughly after handling. Do not wear contaminated clothing or shoes. Wear appropriate protective gloves and clothing to prevent prolonged or repeated skin contact. Avoid contact with eyes.
STORAGE:	Keep containers tightly closed. Use and store this material in a cool, dry, well-ventilated area away from heat, direct sunlight, hot metal surfaces, and all sources of ignition. Store only in approved containers. Protect containers against physical damage. Indoor storage should meet OSHA standards and appropriate fire codes.
EMPTY CONTAINERS:	May contain liquid and vapour residue and may be dangerous. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. “Empty” drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in accordance with governmental regulations. Wash with soap and water before eating, drinking, smoking or using toilet facilities. Consult NFPA and OSHA codes.

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SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

RESPIRATORY PROTECTION:	Specific respiratory protection is not necessary when the adhesive is used as recommended. If in doubt, seek the advice of an industrial hygienist or safety professional for appropriate respiratory equipment.
SKIN PROTECTION:	The use of gloves impermeable to the specific material handled is advised to prevent prolonged or repeated skin contact. Where splashing is likely to occur, aprons impermeable to the specific material may be worn. Refer to the glove and protective clothing manufacturer's selection guide for appropriate material.
EYE PROTECTION:	Approved chemical splash goggles should be worn to safeguard against potential eye contact, irritation or injury. Where splashing is likely to occur, hard hats and face shields may be used to provide additional protection. Eye wash facilities should be available in the work area.
ENGINEERING CONTROLS:	The use of local exhaust ventilation is recommended. Provide mechanical ventilation of confined spaces.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOUR:	White coloured paste with little or no odour.
SPECIFIC GRAVITY:	0.98 (68°F – 20°C)
pH:	6.6
BOILING POINT:	212°F, 100°C @ 760 mm Hg (Aqueous phase)
FREEZING POINT:	Approx. 32°F, 0°C
SOLUBILITY IN WATER:	Dispersible in water
% SOLIDS (BY WEIGHT):	57 ± 2%
% VOLATILE (BY WEIGHT):	43 ± 2%
VAPOUR PRESSURE (MM OF MERCURY):	Same as water
VAPOUR DENSITY (AIR = 1):	Same as water
EVAPORATION RATE (BUTYL ACETATE = 1):	Same as water
EVAPORATION RATE (ETHYL ETHER = 1):	Same as water

SECTION 10 — STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Keep away from flames and spark producing equipment. Not dangerously unstable.
INCOMPATIBLE MATERIALS:	Strong oxidizing agents, strong reducing agents, acids, bases, or unstable chemicals, chloroform, nitric compounds, peroxides, sulfur dichloride, strong alkalis.
HAZARDOUS DECOMPOSITION PRODUCTS:	Hazardous decomposition is unlikely to occur, but under fire or extreme heat conditions, carbon monoxide, carbon dioxide, smoke and fumes, and hydrocarbon fragments can be released.
HAZARDOUS POLYMERIZATION:	Will not occur.

SECTION 11 — TOXICOLOGICAL INFORMATION

MATERIAL: No known hazardous ingredients present at >1%.

SKIN (Dermal LD50): Not available

INGESTION (Oral LD50): Not available

CHRONIC: Liver and kidney damage
FROM OVEREXPOSURE: May cause central nervous system depression.

CHRONIC / CARCINOGENICITY (CANCER CAUSING):

IARC / OSHA / NTP: Not suspected as a human carcinogen.
OTHER: None known.

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SECTION 12 — ECOLOGICAL INFORMATION

No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Incinerate at an EPA approved facility or dispose of in accordance with all federal, state/provincial and local regulations. See Section 2, Page 1 of this MSDS for hazardous ingredients. PROPER WASTE DISPOSAL IS THE RESPONSIBILITY OF THE OWNER OF THE WASTE! Call Desco Industries Inc. if additional information is necessary.

SECTION 14 — TRANSPORT INFORMATION

D.O.T. / T.D.G.: NOT REGULATED

All packaged material must be labeled in accordance with DOT and OSHA standards.

SECTION 15 — REGULATORY INFORMATION

OSHA: Hazardous material by definition of hazard communication standard (29CFR 1910.1200).

PROPOSITION 65: This product contains the following chemicals known to the state of California (Proposition 65) to cause cancer or reproductive toxicity: None known.

SECTION 313: This product contains the following substances subject to the reporting requirements of Section 313 of TITLE III of Superfund Amendments and Reauthorization Act of 1986 and CFR Part 372: None known.

V.O.C.: 0 Lbs/Gal. (SCAQMD Rule 1168) 0 G/L

VHAP: 0 lb/lb solids

HAZARD INDEX:
0: Minimal Hazard
1: Slight Hazard
2: Moderate Hazard
3: Serious Hazard
4: Severe Hazard

HMIS RATINGS:

HEALTH: 1

FLAMMABILITY: 1

REACTIVITY: 0

PERSONAL PROTECTION: Depends on application and ventilation.

TSCA: Components of this product are listed on the TSCA inventory.

WHMIS INFORMATION: NOT CONTROLLED

SECTION 16 — OTHER INFORMATION

Version No. 1FD

All employees or contractors, etc., who use this product must have access to this Material Safety Data Sheet.

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SECTION 17 — DEFINITIONS

ACGIH :	American Conference of Governmental Industrial Hygienists.
ASPIRATION HAZARD:	The danger of drawing material into the lungs, leading to an inflammatory response that can be fatal.
CFR:	Code of Federal Regulations (U.S.). A collection of regulations established by law.
CARCINOGEN:	A material that either causes cancer in humans, or is considered capable of causing cancer in humans.
COMBUSTIBLE:	A term used to classify certain materials with low flash points that ignite easily. For OSHA it has a flash point greater than 100°F (38°C) but below 200°F (93°C).
DOT:	U.S. Dept. of Transportation.
FLAMMABLE:	A material that gives off vapours that readily ignite at room temperatures. OSHA defines flammable as a material with a flash point less than 100°F (38°C).
FLASH POINT:	The lowest point at which a liquid gives off sufficient vapour to form an ignitable mixture with air.
HAZARDOUS:	Any substance or mixture of substances having properties capable of producing adverse effects on the health or safety of a human.
IARC:	International Agency for Research on Cancer.
IRRITANT:	A substance capable of causing an inflammatory effect on living tissue by chemical action at the site of contact.
LD50:	Lethal Dose 50. The single dose of a substance that causes death of 50% of an animal population from exposure to the substance from any route other than inhalation.
LEL:	Lower Explosive Limit. The lowest concentration of vapour that burns or explodes when an ignition source is present at ambient temperatures.
LFL:	Lower Flammable Limit. See L.E.L.
MSHA:	Mine Safety and Health Administration (U.S.).
NFPA:	National Fire Protection Association (U.S.).
NIOSH:	National Institute of Occupational Safety and Health (U.S.).
NTP:	National Toxicology Program (U.S.).
OECD:	Organisation for Economic Co-operation and Development.
OSHA:	The Occupational Safety and Health Administration (U.S.).
PEL-STEL:	Permissible Exposure Limit, Short Term Exposure Limit.
SCBA:	Self-contained breathing apparatus.
SYSTEMIC TOXICITY:	Adverse effects induced by a substance which affects the body in a general manner rather than locally.
TDG:	Transportation of Dangerous Goods (Canada).
TLV-TWA:	Threshold Limit Value, Time Weighted Average.
TSCA:	Toxic Substance Control Act.
TOXIC:	Any chemical or material that has evidence of an acute or chronic health hazard and is listed in the NIOSH Registry of Toxic Effects of Chemical Substances.
VHAP:	Volatile Hazardous Air Pollutant
V.O.C.:	Volatile Organic Compound.
WHMIS:	Workplace Hazardous Materials Information System (Canada).

Disclaimer

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N/A = Not Applicable; NE = None Established

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