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Installation of ESD conductive AZO Industrial Carpet

Sub-floor Preparation:

Use over sub-floors of plywood, absorbent concrete, or hardboard. **Do not** use adhesive where there is a presence of excessive moisture. Remove all dirt, grease, oil, wax, dust, or any foreign matter. Concrete sub-floors should be absorbent, smooth and level, and fully cured (for at least 30 days) and dry (<3.5-lb./1000 sft. moisture per RMA Test.) and sub-floors must be free from moisture or hydrostatic pressure.

The sub-floor does not need to be absorbent when installing ESD conductive AZO carpet rolls with Sigaway® Original and Siga Circuit, or when installing ESD conductive AZO tile. These installations may be made directly over metal, sealed concrete, old epoxy floor, wood, particle board, HPL or over existing glue-down carpet.

The concrete should not be coated with curing or sealing compounds when installing with ESD-106 conductive adhesive. In the event that installation with liquid adhesive over non-absorbent sub-floors is desired, the non-absorbent floors should first be primed and then receive a 0.08" gauge coating of Ardex® acrylic latex based Portland cement level compound.

Installation:

- Carpet, floor, and adhesive must be conditioned above 65-70oF prior to installation.
- Unroll carpet and relax face down for 6-24 hours.
- Use Sigaway® dry adhesive technology to install.
- Alternately: Use ESD-106 water based acrylic conductive adhesive or Sigaway® full surface dry adhesives.

Installing with full surface Sigaway® Dry Adhesive Technology

a.) Roll Goods of ESD conductive carpet:

Apply Sigaway® Original to the full surface of the sub-floor perpendicular to the ESD conductive carpet. If installing ESD conductive carpet over existing glue-down carpet, reinforce the perimeter of the room and the intended seam areas with Siga Construction tape. Next, remove sections of the Sigaway® release paper and place Siga Circuit on the perimeter of the room and every 30 ft. across. Apply lengths of Siga copper tape face down onto the Siga Circuit for connection to designated grounding points. Remove release papers, install the carpet and roll the installation with a 125 lb. roller. The carpet installation may be subjected to traffic and rolling loads immediately.

b.) ESD conductive carpet tiles:

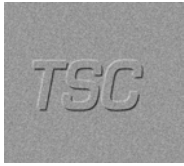
Apply Sigaway® Electronic to the full surface of the sub-floor. When placing carpet tiles over glue-down old carpet, the perimeter re-enforcement with Siga Construction tape is not required. Start by removing release paper from the center of the area; draw a cross and place the carpet tile checkerboard fashion either tile-to-tile or 50% offset towards the walls of the area. The conductive grid of Sigaway® electronic bridges all tiles. Apply lengths of Siga copper tape face down onto the Siga Circuit for connection to designated grounding points. Roll the installation with a 125 lb. roller. The carpet installation may be subjected to traffic and rolling loads immediately.

Effective 6/03 and subject to change without notice

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Adhesive Spreading ESD-106:

- First apply Siga copper tape to the perimeter of the room and every 30 ft. across, leaving tails of copper tape for connection to designated grounding points. Spread ESD 106 conductive water based acrylic adhesive with a 3/32" x 3/32" x 1/8" U-notched carpet adhesive trowel, coarser (5/32" or larger V-Notch) trowel if installing over rough or textured surfaces. **Lay the carpet into wet adhesive. Measure and confirm usage of 80-100 sft./gallon adhesive.** Spread only enough area so that open time of 10-15 minutes is not exceeded.
- **Do not entrap air and check for adhesive transfer - there should be an even amount of adhesive on the floor and back of carpet..**
- In the event that there is scalloping of roll edges due to improper transport or handling, it may be necessary to sandbag seams. No special seaming adhesive is required.
- Smooth the bonded area with firm, even pressure, using the back of a push broom or short length of a 2 x 4. Avoid squeezing adhesive through seams. Clean adhesive spots immediately with warm water. **Cure for 12 hours** before exposing to traffic or wet conditions.

Clean-Up:

Fresh ESD-106 adhesive and tools can be cleaned with lukewarm, soapy water. Dried adhesive may be removed using mineral spirits.

Notes for ESD conductive Azo Industrial carpet

These products **can not** be installed with carpet release adhesives, such as "Blue Glue", polyvinyl alcohol or polyvinyl acetate based release adhesives, which become useless in humidity when in contact with the potassium soap containing rubber backing.

ESD conductive carpet roll installations that are **not** subject to rolling loads can, in many cases, be installed loose-lay and perimeter taped with Siga Construction tape and Siga Circuit tape. ESD conductive carpet tiles, however, need to be electrically bridged tile to tile with either full surface installation of conductive ESD-106 adhesive, or Sigaway® Electronic.

Loose lay or perimeter taped carpet roll installations that are subjected to rolling loads are potentially subject to irreversible elongation of the carpet and subsequent creases (fall hazard).

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