

GROUNDING CONDUCTIVE/STATIC DISSIPATIVE FLOORING

Conductive floor systems must be connected to a permanent earth ground to achieve an electrical equipotential plane (EP), a condition in which static electricity can be dissipated in any direction. Concrete cannot be an EP because air pockets, compositional variations, aggregates and other additives present in the concrete work against achieving uniform conductivity.

Therefore, a conductive floor must be connected to true earth ground through direct, uninterrupted contact with properly prepared grounding points. To ensure electrical continuity, a “Y” shaped copper strip should be used to bridge existing joints in the concrete (Fig. 1).

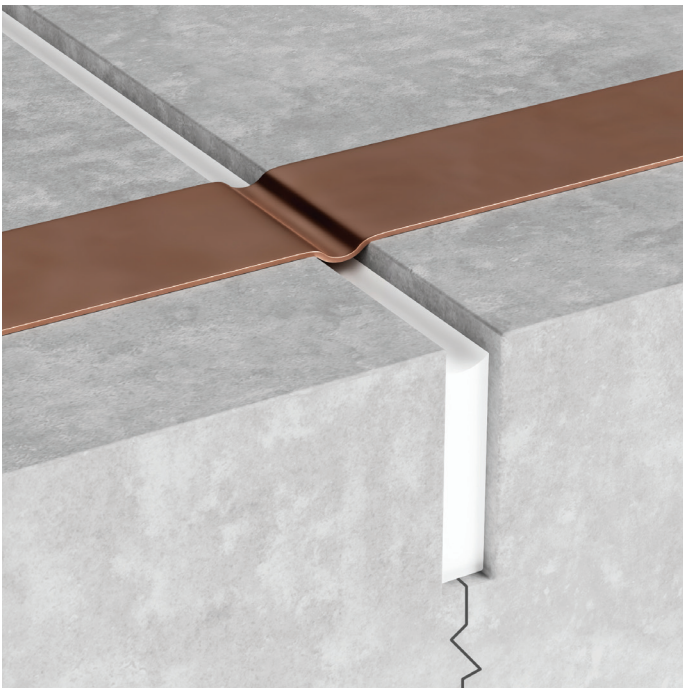


Fig. 1

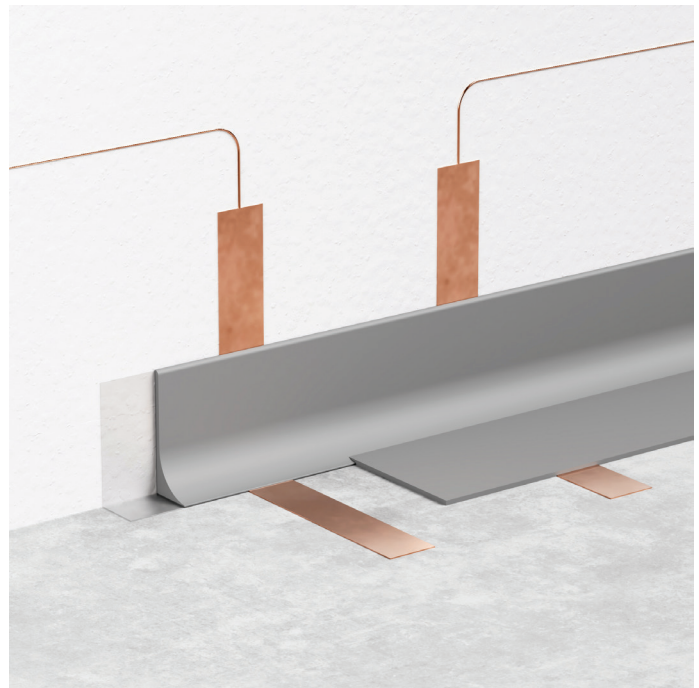


Fig. 2

While there are several methods of establishing the grounding point contact with the conductive floor topping, copper tape is recommended with Sherwin-Williams High Performance Flooring systems. Copper tape is available in various widths to provide a larger area of contact than wire to the topping and, since it is only a few mils thick, it does not interfere with a uniform floor thickness. Typically, copper tape 2 inches in width is sufficient.

Metal floor joints and steel posts or columns may be used as grounding points if they have been tested to confirm permanent continuity to a true earth ground (Fig. 1). The ground point may also be connected to the grounding terminal of an existing electrical outlet (Fig. 2). In general, a minimum of one grounding point per 1,000 square feet of continuous floor space is sufficient for proper dissipation of static electricity.

The copper tape should extend a minimum of 6 inches under the floor topping, continuing under and extending above the cove with sufficient tape exposure to allow a copper grounding wire to be attached. An eye may be soldered to the tape to facilitate attaching the wire. The wire is then connected to the chosen true earth ground point.

IMPORTANT!

Before using Sherwin-Williams High Performance Flooring products, read and understand their accompanying Safety Data Sheet.

STANDARD TERMS AND CONDITIONS OF SALE, INCLUDING STANDARD WARRANTY APPLY - VISIT industrial.sherwin-williams.com/na/us/en/resin-flooring FOR THE LATEST VERSION.

CAUTION! As with all chemical products, individuals may have different reactions to exposure to specific products. This is dependent upon many factors, including the individual's personal characteristics, the size of the installation, the ventilation available, the intensity of the exposure or the length of the exposure. Individuals may experience discomfort during the installation process of one product, but not another.

In some cases this is experienced as a skin irritation and in others it is experienced as an inhalant irritation. Typically, it disappears once the exposure is eliminated. In some cases people can become "sensitized" to a product and experience the discomfort every time there is exposure without Personal Protective Equipment ("PPE").

To protect yourself from various exposures or discomfort during the mixing and application of our products, we recommend covering exposed skin including using gloves, long sleeves, safety glasses and a respirator such as the 3M 8577 P95 Universal Disposable Carbon Respirator or a cartridge respirator.

Use only as directed. KEEP OUT OF REACH OF CHILDREN.

Do not reseal moisture-contaminated hardener. This will result in carbon dioxide generation or possible violent rupture of container.

THE SHERWIN-WILLIAMS DIFFERENCE

Sherwin-Williams High Performance Flooring delivers world-class industry subject matter expertise, unparalleled technical and specification service, and unmatched regional commercial team support to our customers around the globe.