

## STEP-SAFE<sup>®</sup> Surface Applied ADA Mats

Step-Safe<sup>®</sup> ADA mats are made from a polymer composite material designed to alert visually impaired pedestrians of impending hazards in pedestrian travel routes in public rights-of-way. Step-Safe<sup>®</sup> mats comply with the requirements as established by the U.S. Access Board, U.S. Department of Justice (DOJ) and the US Department of Transportation (DOT) as defined in the Americans with Disabilities Act. [The Department of Justice's 2010 ADA standards and the Department of Transportation's 2006 ADA standards are closely based on the updated ADA and ABA Accessibility Guidelines \(2004\). The ADAAG was originally published in 1991 by the Access Board and updated periodically.](#)

Step-Safe<sup>®</sup> has a proven history of resistance to the effects of abrasion, weather and other environmental conditions. Step-Safe<sup>®</sup> ADA mats are designed to be installed on existing concrete surfaces with the specially formulated supplied adhesive that forms a strong bond between the mat and a properly prepared concrete substrate surface.

### Material Design

Step-Safe<sup>®</sup> ADA mats are comprised of a polymer composite composed of specially blended methyl methacrylate resin and inert aggregate fillers that provide strength and resilience as well as resistance to corrosive agents such as de-icing chemicals. The pigmented resins used to manufacture Step-Safe<sup>®</sup> ADA mats result in a uniform color throughout that will not fade due to long term UV exposure.

Step-Safe<sup>®</sup> ADA mats are available in 2'x2', 2'x3' and 2'x4'. Standard colors include safety yellow, charcoal gray, and brick red, custom colors are available to meet specific project requirement. Step-Safe<sup>®</sup> ADA mats can be easily cut to fit specific project geometry requirements. For dimension details refer to Step-Safe<sup>®</sup> ADA mat product drawing.

### Installation Procedure:

Step-Safe ADA Mats are to be installed on existing concrete surfaces with manufacturer supplied adhesive.

1. Concrete surface must be at least 28 days old. Surfaces must be in sound condition and free of any projections.
2. All contact concrete surfaces should be free of hydrostatic pressure, paint, membranes, oils, curing compounds or any other material, which could compromise proper adhesion.
3. Before applying adhesive dry fit the Step-Safe ADA mat to assure that it conforms to the surface shape and desired geometry.
4. Thoroughly mix the manufacturer supplied adhesive according to the supplied instructions and apply to the concrete surface immediately. Use 1/8 inch V notched trowel to spread the adhesive taking care to cover all bonding surfaces with a uniform thickness.
5. Immediately place the Step-Safe ADA mat onto the adhesive and press down to remove any pockets of trapped air. Placing some weight (sand bags) on the mat until the adhesive cures will help with proper mat/adhesive contact. During installation in low temperatures Step-Safe ADA mats can be heated to increase their flexibility.
6. After the adhesive has cured apply a bead of silicone caulking around the outside edge of the mat to assure water will not be able to penetrate.

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**Properties\***

Property	Value	Method
Compressive Strength	1200 psi min.	ASTM C 579
Flexural Strength	175 psi min.	ASTM D 790
Bond Strength	>250 psi or concrete failure	ASTM C 1583
Absorption	<0.1%	ASTM D 570
Slip Resistance	>0.80 Wet & Dry	ASTM C 1028

\* To be used as general guidelines only

**Storage**

Step-Safe<sup>®</sup> ADA mats shall be stored indoors and on a flat surface in its original packaging. Care must be taken to ensure that tiles are not damaged during storage.

Adhesive should be stored in a dry location, out of direct sunlight in original unopened containers, at room temperature.

**Warranty**

The following warranty is made in lieu of all other warranties, either expressed or implied.

Step-Safe<sup>®</sup> is warranted for a period of five (5) years from the date of shipment.

This product is manufactured of selected raw materials by skilled technicians. Neither seller nor manufacturer has any knowledge or control concerning the purchaser's use of product and no warranty is made as to the results of any use. The only obligation of either seller or manufacturer shall be to replace any quantity of this product that proves to be defective. Neither seller nor manufacturer assumes any liability for injury, loss or damage resulting from the use of this product.

\* See full manufacturer's warranty.

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