

# Slips and falls happen...

## they don't need to happen to you!

Falls on slippery decks or walkways are the leading cause of accidents in public areas. Fortunately, there is now a solution to this troubling problem. Safety Grooving, by Diamond Safety Concepts, is a unique floor scoring process designed to improve traction and reduce the risk of slips and falls. Using special diamond tools, Safety Grooving cuts a series of shallow, circular groove patterns into existing concrete or tile floors and decks. The end result is an extremely slip resistant surface that is attractive, maintenance-free and permanent. Unlike points and other coatings, Safety Grooving does not peel or wear away. Safety Grooved surfaces retain their slip resistant qualities virtually forever, without special maintenance or periodic reapplication.

Safety Grooving has many useful applications. It is used extensively on wet concrete decks around swimming pools or spas. Other exterior applications include ramps, walkways and stair treads. Safety Grooving has also been installed, with great success, on tile floors in thousands of commercial kitchens. In the restaurant industry, Safety Grooving has been credited with reducing slip/fall accidents by 70% or more.

Safety Grooving is the ultimate anti-slip solution. It is especially effective for those areas which often become wet or greasy. This process can be used in nearly every type of environment and can be installed on most hard floor materials, including concrete, tile or terrazzo.

## Safety Grooving

- ▶ Patented, Diamond Scoring Process
- ▶ Installed on Existing Floors, Decks and Walkways
- ▶ Improves Traction
- ▶ Reduces Accidents
- ▶ Perfect for Tile, Concrete or Terrazzo
- ▶ Attractive and Inexpensive
- ▶ Lasts Indefinitely

For Information  
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# What is Safety Grooving?

## The Most Effective, Least Costly Way to Improve Traction

Safety Grooving is the most effective, least costly way to improve traction on wet floor surfaces. This process offers many advantages over other traction enhancement methods. Unlike safety mats, rugs, paint, acid or other chemical treatments, Safety Grooving retains its effectiveness indefinitely, without special maintenance or periodic reapplication. Mats and rugs wear out and are costly to replace. Acid treatments can weaken the floor material, often reducing its useful life. Paint, as well as acid and other chemical treatments must be periodically reapplied. These types of treatments begin to wear away as soon as they are applied meanwhile, their effectiveness is diminished with each day's traffic.



## Shallow Grooves are cut into the Existing Floor Material



Safety Grooving is a revolutionary new floor traction control solution, developed specifically to minimize hydroplaning. The installation process uses special diamond tools to score shallow grooves into an *existing* floor surface. These concentric circular rings work like the treads on a tire to channel water away, reducing the hydroplaning effect. This allows the shoe or bare foot to remain in full contact with the floor surface, improving traction and ultimately reducing the risk of slips and falls.

## Many Useful Applications

Safety Grooving has many useful applications. It is extremely effective when used in the aquatics environment on concrete decks around swimming pools, in locker or shower areas and on ramps or walkways. Outdoors, especially in wet climates, the entry "drip zone" of many buildings can be a dangerously slippery place. In this environment, Safety Grooving provides a dramatic improvement in slip resistance when installed on tile, concrete or terrazzo. For wet interior areas, such as restaurant kitchens or shopping malls, Safety Grooving can provide superior traction enhancement for a fraction of the cost of replacing a slippery floor. Effectiveness, however, is only part of the story. Safety Grooving is also *attractive, inexpensive and permanent*.



## Safety Grooving Process Description



The Safety Grooving Process uses special diamond tools to score shallow grooves into *existing* floors, decks and walkways. A patented diamond cutting disk is attached to a high speed drill motor which is mounted on to a small weighted cart. A water source is connected to the machine. The water is used to lubricate and cool the diamond bits as it suspends the cutting residue in a liquid slurry.

The grooving machine is positioned over the area to be scored and the cutting disk is lowered to the floor surface. Depending on the hardness of the material being Safety Grooved and the desired groove depth, each cut takes from five to twenty seconds to complete. The machine is moved to the next spot and the process is repeated.

In a typical installation only the primary foot traffic areas are grooved. The floor area beneath fixed equipment and non-traffic areas are not normally Safety Grooved. Wet or greasy areas are particularly good candidates for Safety Grooving as are sloped ramps and places where people suddenly change direction while walking.

Safety Grooving is a quite noisy and messy procedure. Hearing protection is required for Safety Grooving installers and recommended for others who remain nearby while the installation is being done. The process uses a substantial amount of water and creates a muddy slurry as a byproduct. The installation crew cleans up all water and the slurry residue when the job is complete.