

PRODUCING A SKID-RESISTANT SURFACE USING NEW GENERATION 100®

New Generation 100, used with the right non-skid aggregate, can produce coatings which conform to American Concrete Institute Specification ACI 503, 3-92, as well as other architectural and federal skid-resistant specifications.

TYPE OF AGGREGATE:

COARSE SAND IS EASIEST TO FIND:

The ACI specification calls for aggregate such as coarse sand (silica). Coarse sand is available from most sand/gravel supply yards and is usually the least expensive aggregate. The particle (sieve) size should be matched with the thickness of the coating. Normal play sand will be buried by coatings over 20 mils (20 thousandths of an inch) and will, therefore, not provide adequate skid resistance.

ALUMINA IS PREFERRED FOR HEAVY TRAFFIC:

Alumina is also known as emery, corundum, carborundum and Alo-Grip. Alumina is harder than sand (silica). It has sharper edges, wears better and provides more skid-resistance than coarse sand. If you are unable to find a local source of alumina, call United Abrasives in Vulcan, Michigan at 800-228-2925 and ask for #12/24 Alo-Grip.

MORE OPTIONS FOR LIGHTER TRAFFIC:

Clear cut acrylic, "poly-beads", ground walnut shells and 3M Color Quartz can be used in pedestrian areas. Avoid using alumina, which is sharp edged, in areas used by children and older people.

APPLICATION RATES:

A TEST IS BEST:

The ACI specification calls for 12 lbs. of #8 aggregate per square yard in a 60 mil coating. You will seldom need a rate this heavy. Most customers will be satisfied with 2-10 lbs. of #12/24 alumina per 100 square feet on a 20-40 mil coating.

Put down a test patch. Carefully measure and record the application rate of the epoxy, to determine your mil thickness. Also, measure your usage of the aggregate to determine the "pounds per 100 square foot" rate. Adjust the final application rate and aggregate size to suit the customer.

METHOD OF APPLICATION:

Broadcast the aggregate into the wet coating. Broadcast sparingly by hand with a spreader, sieve or small box with holes in the bottom. If needed, re-roll again with cross passes to spread more uniformly. **DO NOT** porcupine after the aggregate has been applied.

Standards and tips for writing specs for bigger jobs is available from ACI Publications Division, PO Box 9094, Farmington Hills, Michigan, 48333-9094; phone 248-848-3800.

SOURCES OF ALUMINA AND OTHER AGGREGATE:

Abrasive Materials, Inc.

Michigan

800-283-7468

www.surfacepreparation.com

Fritz Industries

Texas

800-955-1323

www.fritztile.com

Best Sand Corporation

Ohio

800-237-4986

www.fairmountminerals.com

Metal Finishing Supply

Wisconsin

800-242-6363

www.metalfinishingsupply.biz

Composition Materials co., Inc.

Connecticut

800-262-7763

Schleifmittel North America, Inc.

New York

800-394-8872

www.treibacher-schleifm.com

Fairmount Abrasives

Illinois

800-258-3878

www.fairmountminerals.com

United Abrasives

Michigan

800-228-2925

Also check the yellow pages under Abrasives, Blasting Equipment and Supplies, Metal

Finishing, Foundry Equipment and Supplies, Sand and Stone, and Sandblasting

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