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Marine Epoxy 100 / 100-11 / 100-100

APPLICATION INSTRUCTIONS

SURFACE PREPARATION - CONCRETE

Concrete should be structurally sound, free of dust, dirt, loose paint. Concrete should be shot blasted, or scarified for the best result.

New concrete can be acid etched with a 25% Muriatic acid followed by a three time cleaning with fresh water. Wait for the floor to dry before you apply the Liquid Epoxy.

All hair-line cracks, holes, broken surfaces should be repaired and patched with Epoxy Compound (*Gel Patch 5000*). All the patches should be dry and sanded before you apply the liquid epoxy.

SURFACE PREPARATION - WOOD

Wood should be strong. There can be no flex in the floor. Put enough screws into floor (every linear foot should be screwed down). Patch all the seams with Epoxy Compound. Preferably use Fiberglass tape (4" width) on all the seams. That will make the seams strong and help prevent cracking at the seams. Put the epoxy gel on the seams with putty spatula. Lay down the fiberglass. Press it down. Apply Epoxy Compound on the top and feather it out with the spatula. Let it cure. Sand it. Clean it and apply the liquid epoxy.

MIXING RATIO

For your convenience the Mixing ratio is 2 Parts Base : 1 Part Hardener by volume.

CURING TIMES

100	-	Standard Cure	-	20 – 25 mins.
100-11	-	Fast Cure	-	10 – 15 mins.
100-100	-	Very Slow Cure	-	40 – 50 mins.

MIXING

1. Use a drill with jiffy mixer at slow speed (200 RPM). Mix thoroughly scraping sides and bottom.
2. Or Mix by hand with a mixing paint stick or spatula. Mix thoroughly scraping sides and bottom.

The time to mix with drill or by hand should not be more than 3 Minutes.

Mix only enough material that you can handle.

1½ Gallon Kit (one gallon Base : ½ gallon Hardener) Coverage approximately 150 sq. ft.

3 Gallon Kit (2 gallon Base : 1 gallon Hardener) Coverage approximately 300 sq. ft.

Once the Epoxy is mixed, do not leave it in the Container.

Immediately pour it on the floor against the farthest wall from the door or exit, in the form of long lines. Spread the epoxy with a roller or squeegee at the rate of 100 sq. ft. per gallon.

Marine Epoxy 100 is a self-leveling material. You will see that in few minutes, the roller marks or squeegee lines will self-level and you will see a smooth surface.

If the areas are big, we recommend that you use golf shoes with spikes so that you can walk into the wet floor. Be very careful. Wet epoxy is SLIPPERY and you should not fall into the wet epoxy. These floors should be applied or installed by professionals who have the experience.

SMOOTH FLOORS

Apply the first coat as above and let it cure overnight. Check the floor. If there are any bumps or pin holes, sand the areas lightly and patch the pin holes.

Apply the second coat as above and wait overnight and you will get a very smooth floor.

Apply the (optional) final coat of *PolyGrip 1005* (see below) at the rate of 200-300 sq. ft. per gallon

NON-SKID FLOOR

Apply the first coat as above and broadcast Gemstone Quartz (colored quartz) or Flint Shot Quartz (plain Stone Quartz) at the rate of 1 lb per sq. ft. until you do not see any wet epoxy.

Let it cure overnight. Sweep up all the excess Stone Quartz. Vacuum the floor.

NON-SKID FLOOR (cont)

Apply the second coat and broadcast Gemstone Quartz (colored quartz) or Flint Shot Quartz (plain Stone Quartz) at the rate of 1 Lb/sq. ft. until you do not see any wet epoxy. Let it cure overnight. Sweep up all excess Stone Quartz.

Sand the floor with hard grinding stones at the bottom of the sanding pad. Sweep clean and vacuum the entire floor. Sanding will determine the roughness or skid-resistant texture of the final floor.

Apply the third coat at the rate of 100-125 sq. ft. per gallon.

Apply the (optional) final coat of *PolyGrip 1005* (see below) at the rate of 200-300 sq. ft. per gallon.

Final thickness of the floor will be 1/8" thick. By repeating the above process it can be built up to 1/4" thick.

TROWELLED DOWN EPOXY FLOOR

Epoxy Base = 1/2 Gallon.

Epoxy Hardener = 1/4 Gallon.

Blended Aggregates / Gemstone Quartz = 40 lbs.

One unit packed in 5 gallon Pail. Pour Epoxy Hardener into the Epoxy Base container. Mix thoroughly and mix with the aggregates/Gemstone Quartz. Each unit will cover 17-20 sq. ft. at the rate of 1/4" thick.

POLYGRIP 1005

A two-component aliphatic, polyester modified polyurethane, which is highly chemical and abrasion resistant. It is also highly UV stable. Clear and Custom made colors are available. Apply at the rate of 200-300 sq. ft. per gallon. Mix two parts Base to one part Hardener by Volume. Mix thoroughly. This has a working time or pot life of 2 hours. Material is Flammable and VOC compliant. **Keep it away from children.** Use proper ventilation and wear proper mask for hazardous fumes.

RECOMMENDED CLEANING EQUIPMENT

1. Pressure Spray Washer
2. Industrial detergent
3. Power scrubber
4. Wire brush
5. Squeegee
6. Wet/dry Vacuum cleaner

RECOMMENDED CLEANING PROCEDURE

1. Sweep clean the surface.
2. Mix the Industrial detergent according to the instructions.
3. Spread the detergent solution on the floor. Let it sit for ten minutes. Scrub the floor. Rinse well.
4. Vacuum all the excess water. Squeegee the whole area.
5. Let it dry completely.