

INSTALLING WITH MECHANICAL FASTENERS

INSTALLING SURFACE MOUNTED U. S. A. SAFETY DOMES

Temperature range of substrate for installing (35° to 100°f.)

Surface Mounted Mats can be installed with or without mechanical fasteners ---depending upon the substrate

If the surface is smooth and not uneven, you may wish to install without mechanical fasteners.

In installing mats without mechanical fasteners you will follow all of the same steps except the steps that reference to drilling, counter sinks, nails, holes, etc.

Installing mats without mechanical fasteners requires that after you put down the bonding agent, you must place weights on the surface of the mats to hold them down against the substrate. Most contractors will use sand bags for about 1 hour while the bonding agent sets up.

STEP 1

The concrete surface must be: some what even, clean, dry and free of oil, contaminates, laitance, and debris and fully cured for 28 days. If surface has oil or similar product, use acetone to clean surface. (surface must be free of wax)

1. Take the counter sink drill bite and counter sink all of the pivots on the mat.
2. Place the mat on the location where it is to be installed. Using a 3/16th concrete drill bit, drill a hole in the concrete at least 2 inches deep on two counter sunk locations. Make sure the mat does not shift by placing 16 penny nails in the holes as you drill them. Drill all of the remaining holes into the concrete and place nails into holes to make sure that all holes are lined up correctly.
3. Use 2 inch duct tape to tape around the mat at least ¼ inch larger then the mat.
4. After drilling all holes into the concrete, use a ¼ inch concrete drill bit and drill all holes that are in the mat to ¼ inch in diameter, this will give some play as you attach the mechanical fasteners.
5. Turn the mat upside down as you are ready for step 2.

WE SUPPLY ALL THE MATERIAL NEEDED TO INSTALL SURFACE MOUNTED MATS

STEP 2.

INSTALLING THE PRIMER

Each sq. ft. of surface requires about ¾ oz. of primer. A 2' x 3' mat will take 4.5 oz of primer, a 2' x 4' mat will take 6 oz of primer.

The instruction on can is for a 2' x 3' mat (6 sq. ft.)

1. Mix enough material for a 5 to 10 minute application with a fast movement mixing blade.
2. Mix thoroughly for 30-60 seconds, and apply immediately
3. Immediately after mixing Degadeck Primer, pour enough primer on the surface and smooth out with a cheap fiber brush leaving a uniform glaze on the surface (brush cannot be used again)
4. Primer should set up with in 10 minutes.
5. As soon as primer is hard, re-drill all holes and blow out with air to insure that the holes are free of concrete dust so that the mechanical fasteners can be easy drive into concrete. It does help to ream to holes out a little so the fasteners go in easier.

STEP 3.

INSTALLING THE BONDING AGENT

Each sq. ft. of surface requires about 3 oz. of bonding agent before filler is added. A 2' x 3' mat will take 18 oz. of bonding agent, a 2' x 4' will take 24 oz of bonding agent.

As soon as you have applied the primer, begin mixing the filler into the bonding agent .

1. Follow the directions on the Bonding Agent can.
2. Put on a pair of thin rubber gloves. (surgical gloves work great)
3. You must work fast as soon as you have added the accelerator; you only have about 15 minutes to finish your job.
4. Put most of the bonding agent on the concrete and smooth out. Save about ¼ of the bonding agent and place on the center area of the back side of the mat. You need a little extra on the edges so you have a smooth finished edge from concrete to the mat.
5. Turn mat back over and place on location, placing about four 16 penny nails through holes in the mat into the concrete to line up the mat(s).
6. Remove the nails and attach the mechanical fasteners which we have furnished with a hammer, do not over pound the fastener as you can brake the domes.
7. Installing the mechanical fasteners in all holes along the edges of the mats must be installed as the attached drawing shows. The mechanical fasteners must be installed so the pressure of the stem of the fastener pushes toward the center of the mat.
8. As soon as you have set all mechanical fasteners into the concrete, smooth all edges so as to have a 30 degree elevation on the edges.
9. Remove the duct tape that was applied in step 1.
10. In the event the bonding agent sets up to fast on the edges, you can come back later with a grinder and make the edges smooth.
11. It is best to have 2 people doing this installation and be sure to call us for additional instructions before starting any installation. **800-540-9277**
12. You are finished with the installation and as soon as you pick up your tools it is ready for foot traffic.

INSTALLING WITHOUT MECHANICAL FASTENERS

INSTALLING SURFACE MOUNTED U. S. A. SAFETY DOMES

Temperature range of substrate for installing: (35° to 100° f.)

**Surface Mounted Mats can be installed with or without mechanical fasteners --- depending upon the substrate (mechanical fasteners take additional time)
Installing mats without mechanical fasteners requires that after you put down the bonding agent, you must place weights on the surface of the mats to hold them down against the substrate. Most contractors will use sand bags for about 1 hour while the bonding agent sets up.**

STEP 1

The concrete surface must be: some what even, clean, dry and free of oil, contaminates, laitance, and debris and fully cured for 28 days. If surface has oil or similar product, use acetone to clean surface. (surface must be free of wax)

1. Place the mat on the location where it is to be installed.
2. Use 2 inch duct tape to tape around the mat at least ¼ inch larger then the mat.
3. Turn the mat upside down as you are ready for step 2.

**WE SUPPLY ALL THE MATERIAL NEEDED TO INSTALL SURFACE MOUNTED MATS
DO NOT USE ANY MIXING CONTAINERS THAT ARE WAX COATED!!!**

STEP 2.

INSTALLING THE PRIMER

Each sq. ft. of surface requires about ¾ oz. of primer. A 2' x 3' mat will take 4.5 oz of primer, a 2' x 4' mat will take 6 oz of primer.

The instruction on can is for a 2' x 4' mat (6 sq. ft.)

1. Mix enough material for a 5 to 10 minute application with a fast movement mixing blade.
2. Mix thoroughly for 30-60 seconds, and apply immediately
3. Immediately after mixing Degadeck Primer, pour enough primer on the surface and smooth out with a cheap fiber brush leaving a uniform glaze on the surface (brush cannot be used again)
4. Primer should set up with in 10 minutes.

STEP 3.

INSTALLING THE BONDING AGENT

Each sq. ft. of surface requires about 3 oz. of bonding agent before filler is added. A 2' x 3' mat will take 18 oz. of bonding agent, a 2' x 4' will take 24 oz of bonding agent.

As soon as you have applied the primer, begin mixing the filler into the bonding agent .

1. Follow the directions on the Bonding Agent can.
2. Put on a pair of thin rubber gloves. (surgical gloves work great)
3. You must work fast as soon as you have added the accelerator; you only have about 15 minutes to finish your job.
4. Put most of the bonding agent on the concrete and smooth out. Save about $\frac{1}{4}$ of the bonding agent and place on the center area of the back side of the mat. You need a little extra on the edges so you have a smooth finished edge from concrete to the mat.
5. Turn mat back over and place on location and smooth all edges so as to have a 30 degree elevation on the edges.
6. Place weights on the entire surface of the mats so the mat will bonding agent will bond the mat to the substrate for about one hour. (sand bags work great)
7. Remove the duct tape that was applied in step 1.
8. In the event the bonding agent sets up to fast on the edges, you can come back later with a grinder and make the edges smooth.
9. It is best to have 2 people doing this installation and be sure to call us for additional instructions before starting any installation. **800-540-9277**
10. You are finished with the installation and as soon as you pick up your tools it is ready for foot traffic.