

EnviroTack™ protocol for cleanroom use

The use of multi-layer adhesive matting for cleanrooms is almost universal. Yet how the matting is used is unique to each cleanroom. Matting can vary in size, color, placement, and number based on the characteristics and logistics of each individual cleanroom.

PLACEMENT

EnviroTack™ mats should be placed in an area where it will be on clean hard flooring. It should be placed just before or just after the ingress/ egress point for EACH cleanliness or control change. It is suggested that the placement sights are worked backward from the final clean area or cleanroom.

- Cleanroom-gowning area
- Cleanroom-staging area
- Gowning area-control area
- Control area –common hallway
- Common hallway-public area
- Common hallway- warehouse or receiving

EnviroTack™ mats should be placed so that all those passing through that point must step on the mats. EnviroTack™ mats should be placed with the longer dimension of the mat in the same direction as the traffic flow for maximum footfalls on each mat. The MINIMUM number of footfalls should be two with each foot for each location. (Total of 4 footfalls)

SIZE

The proper size EnviroTack™ mat for each area of placement is dependent on the width of the opening AND the direction and variance of the traffic. Normally the width of the EnviroTack™ mat should be 2/3rds to 3/4ths of the width of the doorway. It does not normally need to cover the full width because normal traffic, when approaching from the perpendicular direction, passes through the middle of the doorway and not along the edge.

However, if the traffic may come from the side of the entry way or at a sharp angle then the width of the EnviroTack™ mat needs to be wider than the doorway to allow for enough footfalls.

The length of the EnviroTack™ mat should be long enough to provide two footfalls with each foot at each location. Usually this is a minimum of the standard 45" (1.77M).

COLOR

The color of the EnviroTack™ mats can vary from the standard white, blue and grey to custom colors and printed messages. The color has no effect on the function of the mat. In general, the white color shows the most dirt and particulates and so it is preferred by most users to make sure the layers are changed at often enough intervals.

However, blue and grey work just as well but a maintenance schedule should be set.

LAYER MAINTENANCE

How often the layers should be removed depends on numerous variables.

- How dirty is the area the personnel are coming from?
- The difference in cleanliness between the areas.
- The number of people or pairs of feet per shift or per hour.
- The size of the EnviroTack™ mats and how many mats or locations are in the series.

In general, the farther away from the cleanroom the dirtier the area will probably be. Changing the layers at this point of use every 1/2 hour would be a benchmark to start with. The final entry area into the cleanroom is probably from a clean area to a very clean area and each layer may last 4 to 8 hours. However, this is just a rough starting point, and each point of use will vary greatly. It should be determined after a few days of use and observation when the proper time to change the layer and then at what intervals.

INSTALLATION

Before placing a new EnviroTack™ mat down or replacing an existing EnviroTack™ mat make sure to clean the surface to remove contamination that may act as a barrier and keep the mat from adhering. If you are replacing an existing EnviroTack™ mat, make sure to clean any adhesive residue. We recommend using a pre-saturated wiper that contains a percentage of isopropyl alcohol. Make sure the surface is completely dry before application.

To apply the EnviroTack™ mat, remove half of the release liner in the long direction of the mat. This will help with the alignment of the mat. Once you have the EnviroTack™ mat in the location you want, and it is properly aligned start smoothing out the half of the mat with the adhesive exposed. Start at one end and work toward the middle making sure you do not trap air under the EnviroTack™ mat as you go, then remove the rest of the release liner and smooth the rest of the EnviroTack™ mat out in the same direction you removed the release liner.

STORAGE

EnviroTack™ mats should be stored for several hours in similar climate conditions as the point of use. The mats should be

used in a controlled environment setting for ideal results but may be placed in any area that has a temperature of 12-35 °C (54-95 °F).

Long term storage of product should always be on a hard, flat, and solid surface. Storage on the original shipping pallet is recommended. Normal warehouse conditions are usually acceptable but extreme temperatures (Less than 0 or greater than 40 °C, 32 or 105 °F) should be avoided. Storage of product in excess of one year from date of purchase is not recommended. However, under normal storage conditions, the product will not have any variation in performance for a period of up to three years.

QUALIFICATION AND TESTING

To determine if an EnviroTack™ mat is suitable for your cleanroom, it is best to use the product in that environment. Put the EnviroTack™ mat through the standard protocol it which it will be used. Store the product in the area that it will be stored. Have experienced janitorial or cleanroom personal install and maintain the product. Make sure that the foot traffic is that which is normal for your cleanroom, use the same shoe covers and shoes to ensure compatibility.

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