

How to Make an ADA Compliant Trail Using M10+50™

Recommended Stone Mix Material -Crushed Stone Screenings: Crushed trap rock or equal, made of hard, durable, sharp edged rock fragments, free from dirt, organic, or other deleterious matter. Percentages are measured by weight of dry aggregate. The material should conform to the following SAE requirements:

Sieve Size	Percent Passing
1/2 Inch (12.5 mm)	90-100
3/8 Inch (9.5 mm)	75-90
¼ Inch (6.3 mm)	60-75
No. 4 (4.75 mm)	40-60
No. 30 (600 Um)	60-40
No. 100 (150 Um)	20-40
No. 200 (75 Um)	10-20

The content and uniformity of the fines in the stone mix is an Important factor to insure quality

Golf Cart and ADA Trail/Pathway and Horse Trail mix known as ¼ to 0

- 1. Placement of Stone Mix:** Six inches of un-compacted stone mix is placed in construction area. Wood or steel edging should be used for definition of the pathway. The un-compacted stone mix should be graded and sloped to allow for drainage.
- 2. Determination of M-10+50 quantity to use:** The minimum amount of M-10+50™ to be used is six (6) gallons per cubic yard of stone mix. Admix rates will directly affect the outcome of the treated area and should be considered in the design with regards to the end use. All stone mix materials must be tested at various dosage rates to determine proper application rates that are based on the stone mix being used. Aggregate porosity and amount of cohesive material within the stone mix are important considerations when determining amount of M-10+50 to be used. Suggested dosage rates vary from six to ten gallons per cubic yard.
- 3. Calculation of water:** The amount of water addition to use with the M-10+50 is the difference between in-situ moisture content of the stone mix and optimum moisture content required for compaction as evidenced by the dry density weight of the stone mix. M-10+50 has lubricity factors that allow for sufficient compaction with less effort and this fact needs to be taken into consideration prior to making final determination of water admixing.
- 4. Mixing M-10+50/Water with Stone Mix:** Four inches of stone mix is blended with M-10+50 pre-blended with water allowing two inches of stone mix on the bottom for adequate vapor transmission and to reduce the possibility of picking up native material that would cause marbling and discoloration of the finished surface. Blending the M-10+50 and water mixture is best completed using a soil mixer or tiller to thoroughly blend the stone mix with the M-10+50 and water mix. The mixing process must ensure that a homogeneous blend is achieved and complete distribution of the M-10+50/water mix is evenly distributed throughout entire treated area. Failure to thoroughly mix will result in poor performance. Do not prepare or install material during, prior to, or immediately following rainfall or when temperature is 45 degrees F and falling within a 24 hour period.
- 5. Compaction of Surface:** Use of a 5 ton double drum vibratory compactor or roller sufficient in size to effectively compact to the depth of treated surface. The first two passes of treated area are made using static rolling only for obtaining profile of surface. Vibratory compaction is made on one or two passes only. Static roll until desired appearance is achieved. Over-compaction will damage the polymers within the prepared surface and decrease longevity and effectiveness. The use of a plate compactor will void any warranty.
- 6. Top Coat Sealing:** After a minimum of one hour has lapsed, a topical application is required. The topical application should be a mixture of M-10+50 blended with water at a rate of one part M10+50 to one to two parts water. This water mix is determined by the porosity of the finished surface by checking surface adsorption rate. The amount of M-10+50 concentrate to be applied is one quart per square yard. Apply topcoat uniformly until pathway is complete saturated.
- 7. Wearing Surface/Golf Cart Pathways:** A wearing surface of sand or other select material should be used over the entire surface area if they would like to achieve soft landing of golf balls for non-bounce surfaces.
- 8. Annual Maintenance:** Topical application of M10+50 blended with water at a rate of one part M10+50 to one or two parts water. This is depending on the porosity of the finished surface and checking for absorption rates. Apply one-quart per square yard annually.