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Application Instructions RUMBLER Performed Raised Rumble Strips \ Channelization Device

GENERAL CONDITIONS

1. Air temperature 50 degrees F and rising.
2. Surface temperature 50 degrees F and rising.
3. Surface must be completely dry with no precipitation during the 24 hour prior to application
4. Surface must be clean and free of all foreign or contaminating materials such as foreign oils, grease, silt, dust, loose aggregate or sand particles, curing compounds and other forms of dirt and soil.

UNIVERSAL APPLICATION RULES

1. Always use butt joints when putting sections end to end. Never overlap product on itself.
2. Do not apply on deteriorating surfaces or other markings.
3. Do not apply product longitudinally over longitudinal joints.
4. During winter, early spring, or late fall, weather conditions may not be appropriate for the application of preformed rumble strips.

ASPHALT APPLICATIONS

1. Assure all general conditions are favorable.
2. Clean surface with high-pressure air or thorough sweeping. Regardless of method used, all foreign and contaminating materials such as foreign oils, grease, silt, dust, loose aggregate and other forms of debris must be removed.
3. Apply one coat Swarco Contact Cement RSCC-2 to road surface within pre-marked area. Allow the first coat to dry until slightly tacky to the touch.
4. Apply one even coat of contact cement to the back of the preformed rumble strip. Allow this coat to dry until tacky to the touch.
5. Apply a second uniform coat of contact cement to the pre-marked roadway area (over the first coat) and allow to dry until the material is slightly tacky but does not transfer to the hand when touched.
6. Thoroughly tamp according to tamping instructions outlined herein.

PORTLAND CEMENT APPLICATIONS:

1. Assure all general conditions are favorable.
2. Clean surface as outlined above. All curing compounds must be removed with sandblasting, grinding, wire brushing or other acceptable methods that assure complete curing compound removal. Follow by blowing surface with high-pressure air or thorough sweeping. All contaminating and foreign materials must be removed.
3. Follow steps 3 through 6 as outlined under "Asphalt Applications"
4. RSCC-2 may be used on smooth concrete surfaces. For tined and grooved concrete, 2 part epoxy or bitumen adhesive is required.

APPLICATION USING BITUMEN MARKER ADHESIVE

1. Use chalk line or layout paint to premark desired spacing and rumble strip format. Clean surface in accordance with "General Conditions"
2. Stage rumble strips in close proximity of area they will be placed. (Note: bitumen will set up rapidly, thus rumble strip will need to be set quickly)
3. Apply a 8" wide x 50" long puddle of adhesive. Thickness should be determined by roadway texture. Rough texture=more, smooth texture=less. Thickness of adhesive should be sufficient so that rumble strip can be seated to a depth of approximately 1/8th inch. Set the rumble strip into the adhesive before cooling and lightly seat the strip into the adhesive. **(CAUTION: Wear appropriate heat resistant gloves and protective eye gear when working with hot bitumen adhesive materials)**
4. Upon completion of rumble strip section, open to traffic.

TAMPING INSTRUCTIONS: (when using RSCC-2)

Once the strips are in place and contact cement has been properly applied, tamp as follows:

1. Always tamp a minimum of three passes with appropriate tamper or vehicle tire until strips are completely conformed and sealed.
2. All edges must be securely bonded to surface.
3. Never twist tamper or tire when tamping.
4. Open to traffic immediately after tamping provided secure bond is evident.
5. Appropriate tamper:
 - a. Rubber 12" x 3" diameter roller, minimum 200 pounds weight
 - b. Vehicle tire at 2 to 5 mph

For any conditions, contact SWARCO. Read and observe all safety precautions listed on product labels, as well as those normally applicable to products of this type as established by user, industry or SWARCO. Call your sales representative or SWARCO if you need more information or technical assistance.