



Rail Seat Rehabilitator (RSR) Concrete Rail Seat Repair Application

Description

RSR is a 100% solids tough and durable urethane material specially designed to repair and prolong the life of concrete rail seats. The RSR material has excellent abrasion resistance, concrete adhesion, and can be easily applied in the field without cutting existing rail.



APPLICATION

Rail Lifting

1. Prior to commencing work, verify track gauge and level
2. Remove clips from seats to be repaired and 3 ties beyond in both directions.
3. Lift rail high enough to clear the shoulders. Enough clearance must be achieved for removal and installation of the rail pads.
4. Remove existing rail pads and insulators from seats to be repaired.

Tie Preparation

1. Concrete surface must be dry and clean. Any visible water or oil present will result in poor adhesion.
2. Use a minimum 150 PSI continuously dry compressed air to blow out loose debris, dirt and dust prior to applying product. If moisture returns immediately after drying, stop and do not install rail seat repair material in this seat.

Brace/Pad Installation

1. Install new repair pad/form in rail seat.
2. Position and install the rail insulator.
3. Install the braces for the appropriate rail and shoulder type. The braces will hold the rail at the proper height, ensuring the proper toe load is achieved on the fastener.
4. Carefully lower the rail into position. NOTE: The supplied brace will hold the rail and insulator in place during the curing process, and jacks can be removed at this point.
5. Repeat as necessary for the number of tie repairs needed.

Dispenser Preparation

1. Set up dispensing unit according to manufacturers' recommendations.
2. Install cartridge and mix tube.

3. Holding the cartridge vertically, prime the mix tube by dispensing a small amount of material into a waste bucket.
4. Initially dispense into a mold-released container. Verify repair material color/ mixing is uniform and the material sets uniformly in 10 minutes 70°F (21°C). Cut container away from cured material to thoroughly inspect material.
5. Do not proceed if test product does not set. Troubleshoot the problem or contact a voestalpine Nortrak representative for assistance.

Material Installation

1. Using one of the 4 port holes located in the newly installed pad, insert the tip of the mixing tube and carefully dispense material. In the case of a canted rail seat, use the gauge side port to as the fill port.
2. Dispense until material rises to the top of the other 3 holes. Avoid overfilling; fill until material just reaches the top of all 4 ports.
3. Allow ample time to cure. The material hardness is an indicator that the curing process is complete.

Restoring to Service

1. Once the repair material is cured, remove the braces from both sides of the rail.
2. Install new clips.
3. Verify track gauge and level.

Notes

- » If a cartridge goes empty during the filling operation, install and prime a new cartridge, then immediately resume filling using the opposite port hole.
- » If material is not continuously dispensed, it will cure inside the mixing nozzle and will not allow material to pass through. If this occurs, back the plungers off and replace the mixing nozzle. Then re-prime the nozzle and resume work.
- » RSR is an aromatic compound, discoloration from UV light may occur, however, the physical properties are typically unaffected.

Cleaning & Maintenance

- » Clean equipment with Cleaner or acetone immediately after use. Cured material must be removed mechanically.

Health & Safety

- » Heat is generated as the mixed material cures, which can cause the temperature to spike above 250 degrees F, potentially causing severe burns if mixed uncured material contacts the skin. Care should be taken to prevent material from contacting the skin during dispensing, and appropriate PPE should be used. At minimum elbow length leather or similar heat resistant gloves or gauntlets are recommended.
- » Before handling, you should become familiar with the Material Safety Data Sheet (MSDS) regarding the risks and safe use of this product. To obtain an MSDS please call 800-333-9826 or send an email to: msds@wilvaco.com

Disclaimer of Warranty

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Thank you very much for your interest. Please visit our web site or contact a Nortrak sales professional if you have any questions or if you need assistance.

RSR Application
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ONE STEP AHEAD.