

CRF® Restorative Seal for Construction Joints and Rumble Strips

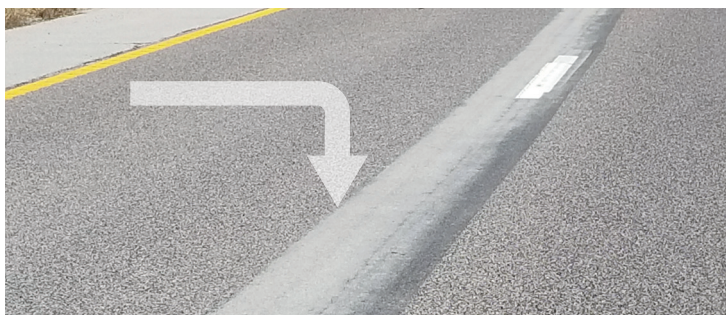
CRF heals and seals

Construction joints and rumble strips deteriorate more quickly than the rest of the pavement surface. Applying CRF not only prevents raveling and heals the surface, but it also extends road life, reduces the need for costly patching and prevents the development of potholes that endanger traffic.



UNTREATED

Deterioration can be prevented when you treat with CRF.



TREATED

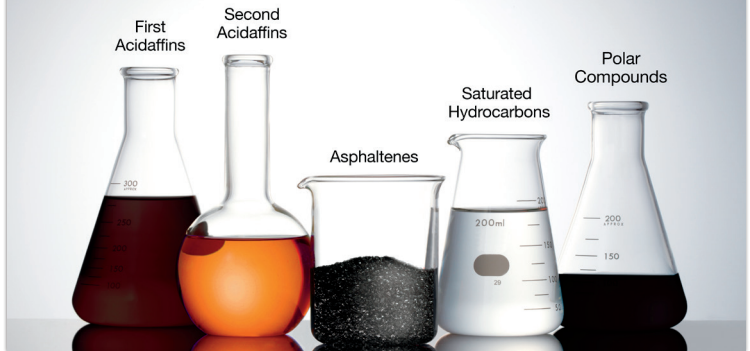
CRF treatments applied two years ago have eliminated the need for high-cost road repairs.

► What is CRF?

According to the National Center for Pavement Preservation, “a true asphalt rejuvenator is a maltene-based petroleum product which has the ability to absorb or penetrate into an asphaltic concrete pavement and restore those reactive components (maltenes) that have been lost from the asphalt cement binder due to the natural process of oxidation.”

CRF is a maltene-based emulsion comprised of the same maltene fractions contained in an asphalt binder plus 11% asphalt. It penetrates the surface, sealing and filling voids and cracks, to repair and rejuvenate construction joints and rumble strips.

Components of Asphalt



► When should CRF be used on construction joints and rumble strips?

Construction joints and rumble strips, which are cuts in the asphalt surface, are particularly vulnerable to rapid deterioration caused by weathering and poor compaction.

Roads that are more than two years old can be treated with a concentrated CRF formula which heals and seals surface imperfections to protect them from premature raveling.

CRF application can also be used to reverse damage to older centerlines and rumble strips. New roads, less than two years old, benefit from a proactive JointBond application.

► How does it work?

CRF has been successfully used for over 50 years. It penetrates, rejuvenates and seals the surface “in-depth” by replenishing the lost maltene fraction in the asphalt binder. Replacing maltenes is the only way to add durability and restore the bond with the aggregate. CRF also improves asphalt flexibility.

CRF, which prevents and reverses raveling and stripping, is made with 11% asphalt so that it can densify and heal moderately deteriorated pavement surfaces that can't be rejuvenated with Jointbond. CRF addresses compaction issues, reduces surface permeability and prevents the intrusion of air and moisture. This product also adjusts viscosity and penetration values by adding maltene to the asphalt. It does not contain degreasers, solvents or creosotes.

► How is CRF applied to construction joints and rumble strips?

CRF is sprayed in a single 24-inch-wide application by a calibrated distributor truck. The concentrated mix comprises 90% CRF and 10% water.

Immediately after application, lime screenings are spread to aid curing and soak up excess product. Then lanes can be reopened to traffic. Three to five days later, the screenings may be swept and removed.

Corrective Asphalt Materials can generally treat up to 20 miles of road per day on centerlines and rumble strips from early spring to late fall.

Application and Sanding of CRF

► What to expect

During the first few months after application, the treated areas will have an uneven look, but this will even out to a tight surface and uniform gray color in about 6-8 months. CRF will significantly extend the service life of the joints and rumble strips. Roadways will need to be restriped.



UNTREATED

This older road was not treated with CRF. The construction joint deteriorated and had to be patched.



TREATED

A rumble strip that was sprayed with CRF 2 years ago remains in good condition.