



Industry contractor experts ask us, “Why use Tec-Shield RTU on rubber tire Rollers?”

Tec-Team has known for years that **Tec-Shield RTU keeps rubber tires from picking up Polymer-Modified asphalt** while actually **protecting the rubber and the asphalt itself** from the damage caused by using diesel fuel as a release agent, yet some of our customers use rubber tire rollers and some do not. Rubber tire rollers were used extensively in some areas a few years back. In some areas, they are an integral part of the paving operations. Why, we ask? **Polymer Asphalt adheres to tires much more than A/C asphalt.** It seems that before Polymer- modified asphalt was introduced, rubber tire rollers worked well with just a water spray on the tires. **Not anymore!** Rolling a PG grade asphalt with a rubber tire roller now automatically adheres to the tires. **Because of the excessive, sticking, rubber tire rollers *stopped being used* by some companies.**

This is information we gathered from a customer who used Tec-Shield on their rubber Tire Rollers.

- **Rubber tire rollers helped with ride-ability by:**
 1. **Smoothing the ridges and humps left by steel wheel edges and reverse-directional changes**
 2. **Smoothing irregularities that radiate from underlying pavement.**
- **Rubber tire rollers improved compaction.**
 1. **Actual figures for a PG grade asphalt using a Troxler nuclear moisture density device showed that a rubber tire roller added into the rolling pattern improved compaction.**
Steel wheels only ----- 92% to 94% Compaction

Rubber tire roller added ----- 96% to 98% Compaction

Using TecShield RTU @ 5 to 1, the pneumatic roller was able to roll to within 30 ft. of the screed (300 F) normal is 200 F to 240 F for rollers.



Where The Rubber Meets The Road

Tec-Shield RTU instructions for the rubber tire roller

Rubber tire rollers are preferred by many DOT's and contractors for various reasons.

Some of the challenges facing the contractor are performance - grade asphalt blends with sticky diesel resistant polymers and stringent **NO DIESEL** specifications.

The instructions on the right are for your operators to try and adjust according to mix design and temperature conditions.

- 1 A functional spray system is recommended.
- 2 Before moving roller on to fresh mat roll forward and backward spraying tires continuously.
- 3 When moving roller on to fresh mat spray continuously until tires have heated up.
- 4 As roller is in continuous operation ; spray tires at least 2 revolutions before changing directions (variable according to mix and conditions)
5. Do not use diesel on rubber.



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