

SAFE BIND® + RAS

Words From Clients

"100% recycling is what we're trying to accomplish. We use recycled gravel, recycled road sweepings, basin cleaning, chipped stone, and the shingles all blended together and applied to gravel roads to stabilize the original conditions. And then we apply SAFE BIND to lock it up. That seems to get me about three months of not having to grade so it saves me a ton of man hours, machine time, and even gravel in the future...We've used RAS on roads with grades up to 5 percent. After one heavy rainfall we inspected that road and it was still in excellent shape. So we are doing this treatment on more and more roads, because RAS keeps our gravel in place."

— Steve Mattscheck
Director of Public Works, Exeter, RI

"We have had great success with Safe Bind. We have several steep gravel roads in town that we used to have constant washouts and problems with. After the use of Safe Bind those issues went away. Summer of 2019 we introduced RAS into our gravel road program. We have experimented with two ways of using this product we blend the RAS into the road while grading and then apply Safe Bind or we grade the road and then put the RAS out through our spreader trucks before York raking the road. The final step being we spray Safe Bind at the recommended application. I cannot say enough as to how impressed I am with the fines retention of this product. Kevin has been great to deal with and makes himself available for any questions we may have."

— Tyler Howe
Director, Hancock, NH DPW

WHAT IS IT?

SAFE BIND is a high performance blend of ammonium ligninsulfonate and calcium chloride brine.

Lignin is an organic material that fills voids between cellulose fibers in trees, giving them firmness and rigidity. It literally "glues" a tree together.

Ligninsulfonate is a by-product of the paper making process during which lignin is separated from cellulose and reclaimed.

Recycled Asphalt Shingles (RAS) has a 25% asphalt content and the consistency of coffee grounds. Every 4 tons of shingles contains 1 ton of residual asphalt for a fraction of the price of regular asphalt. It can be applied with a spreader or dump truck then worked into the road surface with a York rake followed by an application or applications of SAFE BIND. It can also be used in full depth reclamation applications.

SAFE BIND is the perfect binder for RAS due to the presence of the paper pulping byproduct (ammonium lignosulfonate). The residual effect of the RAS and SAFE BIND combination over time will further reduce the need for grading and liquid application.



THE ADVANTAGES OF SAFE BIND AND RAS

SAFE BIND

Versatility

- Dust control & Fines retention agent
- Base stabilization agent

Powerful Corrosion Inhibition

- Substantially reduces and even stops corrosion damage due to ferrous metals

Cost Reductions over other stabilization agents

- Less blading and grading
- Virtually no potholes or washboarding
- Outperforms MgCl₂ and CaCl₂ brines

Environmentally Friendly



RAS

Made from recycled materials

- Consists of approximately 25% reusable asphalt
- Cost efficient
- Costs a fraction of the price of regular asphalt

Wear Reduction when combined with SAFE BIND

- Significant reduction of wear when combined with SAFE BIND leads to a reduced use of all materials
- Less need for grading and raking saves machine time and man hours



Environmentally Friendly
Winter & Summer Road Maintenance Products

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