

DUST/BLOKR[®] SB (aka DUST|STOP)

Frequently Asked Questions

OUR TOP QUESTIONS....

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Why use DUST/BLOKR®/SB for dust suppression on your roads?

Use DUST/BLOKR®/SB on your roads because it is a non-corrosive and environmentally friendly alternative to traditional dust control methods such as chlorides and oil-based emulsions. Additionally, DUST/BLOKR®/SB is highly effective on a variety of road and material types, it is applied using standard procedures and equipment, and does not run-off or get sticky in the rain. Products such as oil-based emulsions and chloride-based products (magnesium chloride/calcium chloride) have been used in the past for dust suppression at the expense of the environment, which is not a concern for DUST/BLOKR®/SB. The product is composed of organic sugar and starch ingredients, as well as a proprietary mineral compound, providing effective dust control with no adverse impact on the environment.

What is the difference between DUST/BLOKR®/SB and chloride-based products??

DUST/BLOKR®/SB is specifically designed as a non-corrosive and environmentally friendly alternative to other dust control products such as magnesium chloride and calcium chloride. DUST/BLOKR®/SB is cost-competitive with road salts while being able to effectively eliminate unwanted fugitive dust from unpaved roads. Road salts are hygroscopic by nature meaning they require ambient moisture to be effective and therefore experience performance issues during dry periods of weather with limited ambient moisture present. Also, chloride salts are highly soluble materials that can easily be transported off a road and leach into adjacent soils, water bodies, and/or migrate below the road surface during precipitation events. DUST/BLOKR®/SB is not hygroscopic, so it is not burdened with the same performance limitations as road salts during prolonged dry periods or wet weather. The concentrated liquid formulation is easily mixed with water prior to its application, allowing it to be easily transported and applied with standard water trucks. Once the solution is sprayed on the road and allowed to dry, immediate dust control results will be achieved. Once set, it is semi-soluble making it resistant to run-off while also able to re-activate and re-bind any loosened or fugitive particulate matter during precipitation events.

What is DUST/BLOKR®/SB made of?

DUST/BLOKR®/SB is composed of a proprietary blend of sugars, starches and minerals. It utilizes these main inputs in a concentrated liquid form to produce an effective dust control product that is applicable to a wide variety of roads and material types.

How does DUST/BLOKR®/SB work?

The unique blend of components utilizes the functional properties of sugars and starches allowing DUST/BLOKR®/SB to bind and harden any loose particulate matter decreasing dust from unpaved roads. DUST/BLOKR®/SB can be rejuvenated by water; once it becomes wet it re-sets and then re-binds loose particulate as it dries making it effective through intervals of wet and dry weather. For a more in-depth explanation of how DUST/BLOKR®/SB works please contact your Mountainside Earthworks representative.

What material types is DUST/BLOKR®/SB effective on?

DUST/BLOKR®/SB hardens and binds all loose particulate that it comes into contact with and functions to create a barrier on the surface it is applied to once it has cured. Based on the above, DUST/BLOKR®/SB is applicable to virtually any material type; however, best results will be experienced when using a well graded material with an optimal particle size distribution.

What are the benefits of using DUST/BLOKR®/SB?

DUST/BLOKR®/SB is supplied in a concentrated liquid form in 1000 L totes allowing for easy transportation and application. The finished product provides superior dust control and light surface stabilization that reduces maintenance requirements, such as grading, re-sheeting, and water treatment. The unique blend of materials utilizes the functional properties of sugars and starches allowing it to harden and bind any loose particulates on road surfaces in both wet and dry weather conditions. Once wet, DUST/BLOKR®/SB’s semi-soluble behavior allows it to re-set and re-bind any loosened or fugitive particulate matter. Therefore, DUST/BLOKR®/SB also has the ability to accumulate residually within road material and to be re-worked with water and light grader maintenance the following year. DUST/BLOKR®/SB is non-toxic, non-corrosive and Boeing certified, meaning it will not cause adverse effects to machinery or vehicles using the road and can be applied at or near airports. Also, it will not cause harmful effects to adjacent soils, vegetation or aquatic life making it safe to use in environmentally sensitive locations.

How is the application rate of DUST/BLOKR®/SB determined?

The application rate of DUST/BLOKR®/SB will vary and is based on the unique implications of each project. Application rates are best determined by evaluating a completed product questionnaire, which can be forwarded to Mountainside Earthwork’s (MEW) technical support team. This document will provide MEW with information regarding the project such as the road type, material type, traffic weights, frequencies, and speed as well as other relevant information. Once MEW has received a completed questionnaire, they will provide the recommended application and dilution rates as well as the application procedure that should be followed.

How is DUST/BLOKR®/SB applied?

DUST/BLOKR®/SB is applied with standard road construction equipment (ex. water truck, rubber wheel compactor, etc.) and can be applied topically or it can be mixed into the top 50-75 mm (2-3”) layer of a road surface to provide superior dust control and light surface stabilization. Both construction procedures (topical application or mix-in application) have been individually outlined in separate documents that can be shared upon request.

Is DUST/BLOKR®/SB adversely affected by wet weather?

No, DUST/BLOKR®/SB is not adversely effected by wet weather. DUST/BLOKR®/SB contains a unique proprietary blend of sugars, starches and minerals creating a semi-soluble product that, once cured, is able to hold its strength in the presence of water and re-set to bind any loosened or fugitive particulate. DUST/BLOKR®/SB will penetrate the material surface, especially when the mix-in protocol is used, where it hardens and occupies pore spaces preventing water ingress. In some cases, observed colour in the run-off after a rain event occurs due to the extremely strong pigments within the product. Although this has no effect on the product quality, it may appear as if the product is running off the road. This is not the case. The reason for this appearance is that the pigments within DUST/BLOKR®/SB are more soluble than the active ingredients. While the pigmentation can leach out, the product itself remains active within the road.

What road types is DUST/BLOKR®/SB applicable for?

DUST/BLOKR®/SB is effective on many unpaved road types; municipal roads, secondary roads, access roads, haul roads (mining and municipal), parking lots and driveways, as well as a variety of other applications such as stockpiles and tailings.