

**DUST/BLOKR[®] SB**
(aka DUST|STOP)

Application Protocol: Topical

The following protocol outlines the step-by-step process of topically applying DUST/BLOKR[®]/SB on unpaved roads using a water truck.

Equipment Required:

- 1) Water Truck

Application Procedure:

Complete any required pre-maintenance prior to conducting the DUST/BLOKR[®]/SB application to ensure any uneven surfaces such as potholes, wash-boarding and rutting do not exist. Low spots in the road can cause the DUST/BLOKR[®]/SB to pool and will take longer to dry. It is also advisable to minimize any loose gravel on the road prior to doing a topical application. Loose rocks are difficult to bind, and they may become abrasive and wear away at the barrier that the DUST/BLOKR[®]/SB creates on the road. The better the road is prepared prior to the application the better; if the road is already in good condition there is no pre-maintenance required.

For the purposes of this application protocol, a rate of 4L/m² of DUST/BLOKR[®]/SB and water mixture is used with a dilution rate of 10% DUST/BLOKR[®]/SB. However, in the field, typical mixing ratios and application rates can vary depending on soil and traffic type.

- 1) Calculate the area to be covered by the DUST/BLOKR[®]/SB application: measure the length and the width of the road, multiply the length by the width to determine the total area to be treated.

Ex. Road is 6 m wide x 1,000 m (1 km) long, total treatment area is **6,000 m²**

- 2) Calculate the volume of DUST/BLOKR[®]/SB required: multiply the treatment area by the application rate, then multiply that by the dilution rate to determine the total volume of concentrated DUST/BLOKR[®]/SB.

Ex. Treatment area of 6,000 m² x 4 L/m² DUST/BLOKR[®]/SB/water mixture = 24,000 L of diluted DUST/BLOKR[®]/SB x 10% dilution rate (0.1) = **2,400 L** of concentrated DUST/BLOKR[®]/SB

- 3) Based on the size of the water truck, fill the tank with the required amount of product and water to cover the calculated area at the prescribed application rate.

DUST/BLOKR[®]/SB is shipped in 1,000 L totes equipped with a 2” spout. Attach a 2” quick coupling joint (banjo quick disconnect or similar) to a pump if available or, if the product is to be gravity fed into the truck, a short section of hose can be used. Loosen/remove the cap on top of the tote while it is being emptied to relieve pressure.

- 4) If the entire tote is not required for the application, there are markings on the side of the tote that allow the amount of DUST/BLOKR®/SB added to the truck to be measured. Once the correct amount has been added to the water truck, close the valve on the spout of the tote as well as the cap on the top.
- 5) Apply the DUST/BLOKR®/SB and water solution onto the road as evenly as possible over the desired treatment area. Drive back and forth over the road surface until the entire surface area has been covered and the tank has been emptied.
- 6) Allow the road to dry for as long as possible prior to opening it up to traffic (minimum one hour). Some customers will do one lane at a time to allow proper drying time while allowing traffic to continue flowing in the other lane.
- 7) If multiple sprays of DUST/BLOKR®/SB will be done in one day, the next application can be done immediately after the first. However, rinse the water truck with water at the end of the workday to ensure the product is washed out of the tank, hoses, spray heads and pumps. DUST/BLOKR®/SB is water based, non-corrosive and will not damage any metal parts of the truck and is relatively easy to wash off when still wet. Utilize residual product in the rinse water on berms or areas that border the treated area to help reduce the amount of fugitive dust produced which can contaminate the work site.

The application rate discussed above is a typical rate; however, the application rate that is applicable for your project will be dependent on the project details. **Please contact your local representative for suggestions on what rate would be best applicable for your requirements.*

*** The amount of water used in an application will vary depending on the soil conditions.*

The above protocol is supplied by Cypher Environmental Ltd. to be used as a guideline only. The information contained in this protocol has been compiled as a result of the methods used during past successful DUST/BLOKR®/SB applications. Successful application methods and techniques are not limited to the guidelines listed above and the actual method used during the application of the product should be determined on a per project basis by the foreman in charge of the application. DUST/BLOKR®/SB should only be used in compliance with all provincial/state and local regulations.

Results may vary when applied to different soil types and variances in the application methods and amounts may be required to suit these variances accordingly.

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