



Let us exceed your expectations

MaxxSeal Applications

Application Methods:

MaxxSeal is supplied as a liquid polymer with at minimum 50% stable solids. It easily mixes in with water and has no EPA warnings or application restrictions. Once the product is on the site the material will be added to a pre-loaded water truck. The ratio of polymer to water will be estimated prior delivery and confirmed before the application has started. There are essentially two methods of applying the polymer. One is deep stabilization while the other is a highly diluted topical application.

Stabilization: The stabilization method requires scarification of the soil down to the required depth of desired stabilization. This can be accomplished with a grader or with an offset disk behind a tractor.

Once the soil has been well scarified or disked, you will start adding the mixture of MaxxSeal with water.

As the water truck makes its passes you will want to disk the soil between each pass in order to evenly mix the polymer/water solution with the soil. Once complete you should have an evenly moistened soil that is ready for shaping.

Before rolling you will want to use the grader to smooth the soil and reshape for proper drainage. You will not want to dig deeply as to bring in untreated soil. If you see that the color of the moistened soil is uneven you will want to check for dry sections and remoisten as needed. Once you are satisfied with the evenness of the moisture and shape of the road you will start to compact with a roller.

As soon as the soil is rolled you can open the road up to traffic. The additional traffic will help to compact the road even further and make it extremely solid. After allowing the road to dry for a while you will use the water truck to apply the final topical coat. This will seal the surface and add to abrasion resistance.





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Dust Control:

The second method is a simple topical application. This is primarily used for **high traffic areas where dust control is the main concern**. The soil for this application is typically loose on the surface yet well compacted in the lower sections and will not require scarification. This allows the road to remain open at all times. The process is used widely by mines and other high traffic operations where they do not want to stop traffic or add undue work.



We start this application by preparing the surface of the road. This is an essential step for a successful operation. The objective is to remove loose rocks, fines, and other material that can cause premature failure of the application. If this step is skipped you will be creating the need to use more product than necessary. In order to accomplish this we recommend using a grader with the blade gently touching the surface of the road. You will be scraping only about one centimeter of material off to the side.



Once the road is scraped you will be ready to start the application. One advantage to this method is that you do not need to interrupt mine haul truck traffic and the water truck program already in place can be used to bring the road to the dust free level. On the day that the program starts we will simply be adding a designated amount of product to each water truck before it goes about its normal routine. To make it simple the amount added will always be in

container increments. This simplifies the operation so that there are no unwanted delays.

As stated before, the water operation of the mine will continue as normal giving the material time to dry between applications. **Haul trucks and other traffic will help press the material into the road causing the polymer to penetrate into the base.** After a few passes with the water truck you will reach a point at which watering is no longer needed. The end result is a, hard, compact, dust free, erosion and wash boarding proof road.





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Application Rates

When MaxxSeal is applied to the soil, the copolymer molecules coalesce and form bonds between the soil and aggregate particles. High molecular weight, long chain polymers form a resilient matrix that is very durable and water resistant. The most durable soil stabilizer of our product line, MaxxSeal can be customized to achieve the results you need. Modest application rates are useful for dust suppression and erosion control. Heavier application rates can generate qualities similar to concrete, useful for soil solidification and stabilization found in road construction. By adjusting the application rate, MaxxSeal can remain effective from weeks (light dust control) to several years (heavy Stabilization).

The following application rates are considered our base line rates. These rates are sectioned off in centimeter/ inch increments. Each number to the left represents the depth of treatment with regards to stabilization. For topical you can use the number on the left as well starting with 1cm and a light topical application and 5cm being a high concentration topical application. Each project will have a prescribed dilution rate specified by our field operations manager or our lab facility based on in-house testing.

Once you have determined the level of stabilization or topical application, in cm, you will then move across to the appropriate column. The column marked Gal/yrd is the amount of product that you will be putting into each square yard. (Ltr/Mtr is liters of product per square meter.) This is total product and not water. Regardless of the dilution rate prescribed, the product amount will always be the end objective. For example, if we determine that you will need .20 gallons (12 cm of stabilization) of product per square yard for your project and then determine the dilution rate is one part polymer to 9 parts water, which is simply saying that each square yard will have a total of 2 gallons of mixture. (.20 gallons of polymer and 1.8 (.20x9 = 1.80) gallons of water for a total of (.20+1.80 = 2.0) 2 gallons of mixture. The amount of water is regulated by the application type, (stabilization vs topical), the soil (low fines vs high fines) as well as the moisture of the soil at the time of treatment. The end objective with our example, regardless of water requirements is to end up with .20 gallons of product in each square yard to be treated. This method will assure that we have delivered the correct amount of solids into the soil for your application. This is science, it is not a guessing game and we treat it as such.

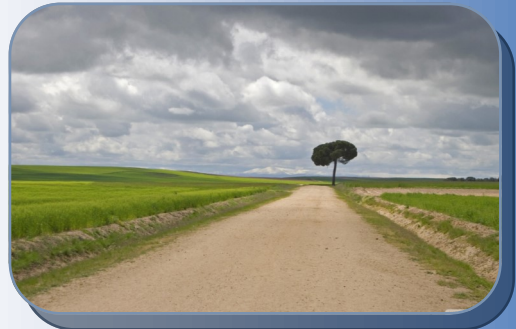
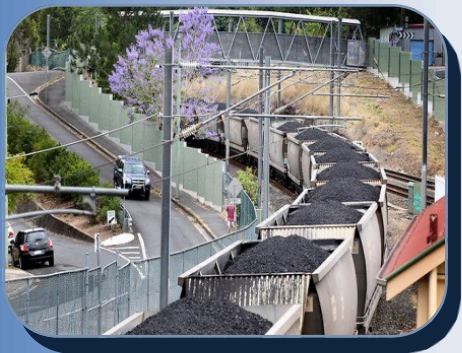
<u>CM</u>	<u>Inches of</u>	<u>Gal/Yd</u>	<u>Ltr/Mtr</u>
20 CM	8 Inch	0.33 Gal/Yd	1.40 Ltr/Mtr
19 CM	7 5/8 Inch	0.31 Gal/Yd	1.33 Ltr/Mtr
18 CM	7 2/8 Inch	0.30 Gal/Yd	1.23 Ltr/Mtr
17 CM	6 6/8 Inch	0.28 Gal/Yd	1.19 Ltr/Mtr
16 CM	6 3/8 Inch	0.26 Gal/Yd	1.12 Ltr/Mtr
15 CM	6 Inch	0.25 Gal/Yd	1.05 Ltr/Mtr
14 CM	5 5/8 Inch	0.23 Gal/Yd	0.98 Ltr/Mtr
13 CM	5 2/8 Inch	0.21 Gal/Yd	0.91 Ltr/Mtr
12 CM	4 6/8 Inch	0.20 Gal/Yd	0.84 Ltr/Mtr
11 CM	4 3/8 Inch	0.18 Gal/Yd	0.77 Ltr/Mtr
10 CM	4 Inch	0.17 Gal/Yd	0.70 Ltr/Mtr
9 CM	3 5/8 Inch	0.15 Gal/Yd	0.63 Ltr/Mtr
8 CM	3 2/8 Inch	0.13 Gal/Yd	0.56 Ltr/Mtr
7 CM	2 6/8 Inch	0.12 Gal/Yd	0.49 Ltr/Mtr
6 CM	2 3/8 Inch	0.10 Gal/Yd	0.42 Ltr/Mtr
5 CM	2 Inch	0.08 Gal/Yd	0.35 Ltr/Mtr
4 CM	1 5/8 Inch	0.07 Gal/Yd	0.28 Ltr/Mtr
3 CM	1 2/8 Inch	0.05 Gal/Yd	0.21 Ltr/Mtr
2 CM	6/8 Inch	0.03 Gal/Yd	0.14 Ltr/Mtr
1 CM	3/8 Inch	0.02 Gal/Yd	0.07 Ltr/Mtr



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MaxxSeal Applications

Unpaved Dirt Roads	Land Development	Forestry Roads	Agricultural Roads
Construction Sites	Parking Lots	Military Operations	Defense Compounds
Slopes and Berms	Road Base and Sub Base	Parks & Rec Trail ways	Heavy Hall Roads
Airport Taxiways	Road Shoulders	Construction Lots	Helipads and FARPs
Unpaved Driveways	Aircraft Runways	Mines	Border Patrol Roads



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