

**MINING / CONSTRUCTION**

**RD10**

**DUST CONTROL**

**DESCRIPTION**

Dust is a genuine health concern for people and livestock and a general safety and environmental hazard.

The control of dust is a serious issue for mining and infrastructure projects operating near or within areas of primary production, community and protected areas.

The control of dust, typically by the topical application of water, can be a costly and disruptive process – often effective for a limited time period.

The application of RD10 is completed by adding a percentage of the product to the water being used to control dust. Any water source can be used as the water is simply a carrier for the RD10 agent. Depending on the application, various rates of RD10 can be used.



**USES**

RD10 is a water soluble non-hazardous emulsion that is specifically designed for soil stabilization, soil solidification, erosion control–stock piles, and suppression of dust.

**ADVANTAGES**

- Environmentally friendly and biodegradable
- Dries clear and odorless
- Is water resistant once cured (will not wash away)

**TECHNICAL DATA**

The data below is laboratory data only.

**MATERIAL DATA**

Parameter	Standard
Physical Form	Liquid
Color	Milky White
Freezing Point	<32°F
Solubility in Water	100%
pH	4.5 – 6.0
Specific Gravity	1.05 – 1.10

**YIELD**

See below dilution and application rate based on requirements.

Topical Applications	Pints per yd <sup>2</sup> RD10 Concentrate	+ Parts Water	Pints per yd <sup>2</sup> RD10 Diluted
Unpaved heavy haul roads	1.32	5	4.5
Unpaved roads heavy traffic	1.23	6	4.9
Unpaved roads light traffic	1.06	7	4.8
Trails and paths	0.88	8	4.5
Slope erosion control	0.7	3	1.6
Stock pile dust control	0.35	9	2
Dust control 6 months	0.18	13	1.4
Dust control 12 months	0.26	10	1.6

**APPLICATION METHOD**

1. Preparation of Site

The site should be completely dry and free from water for a period of 72 hours following RD10 application.

The site should be compacted to a minimum of 95% and contoured to allow for proper drainage. If the site is very dry, pre-wetting may be required at a rate of 1 pint of water per 1.5 yd<sup>2</sup> to break the ground surface tension and allow better RD10 penetration.

Any loose aggregate should be removed from the application area.

2. Preparation of Equipment

Set spray nozzles to the desired height, width and output rate. The spray nozzles should provide an even coat with each pass.

The spray rate should be set to allow for even coverage with multiple coats to avoid RD10 from draining away.

A suitable release agent can be used to prevent RD10 overspray from bonding to equipment.

3. Preparation of RD10 Dilution

Fill application equipment with recommended volume of water. Add the recommended volume of RD10 to the water.

Note: adding water to the RD10 will result in foaming.

4. Application of RD10 Dilution

Apply the RD10 diluted solution in even coats over application site. Generally, 4 – 5 even coats should be sufficient.

Each successive coat should be applied while the application area is still wet, otherwise a skin layer will form without soil penetration.

Allow site to completely cure for a minimum of 6 hours and preferably 24 – 72 hours before allowing traffic access. The longer the product has to cure prior to traffic movement the longer the durability of the application.

After 3 – 6 months following initial application a further application of RD10 at 30% of the initial concentration level can reactivate the surface.

5. Cleaning

Rinse off equipment with water until clean. If RD10 has been allowed to cure a hot pressure washer or surface scrubbing may be required.

**SAFETY INSTRUCTIONS AND LIMITATIONS**

Observe the usual precautionary measures for handling chemicals, see RD10 SDS.

**PACKAGING AND TRANSPORTATION**

RD10 is supplied in 55 gal drums (480 lbs), and 275 gal totes.

**STORAGE AND SHELF LIFE**

RD10 should be stored in a cool, dry and well ventilated area out of direct sunlight. Avoid high temperatures (store below 120°F) and freezing conditions (store above 32°F). RD10 has a shelf life of 12 months.

**DISPOSAL**

If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Dispose of material in accordance with all applicable federal, state/provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

**APPROVALS AND CERTIFICATES**



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**ADDITIONAL DOCUMENTATION**

Started more than 135 years ago, Minova is a global manufacturer and supplier of chemical and mechanical earth control products and support equipment. With manufacturing plants on five continents and operations in more than 25 countries, Minova is an industry-leading provider of ground support solutions for the underground mining, construction and energy industries.

If further information is required consult Minova Americas website: [www.minovaglobal.com](http://www.minovaglobal.com).

- RD10 Dust Control Safety Data Sheet (SDS)
- Minova Chemicals, Polymers & Steel Application Guide

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