



RD10 Dust Control

Product Data





RD10 Dust Control

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 that can on hot dry days be only effective for a limited time period.

RD10 is a water soluble non hazardous emulsion that is specifically designed for:

- Soil stabilisation
- Soil solidification
- Erosion control – stock piles
- Suppression of dust

RD10 is environmentally friendly and can be applied through either topical means or mixed in with the soil.

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.

Product Information

Advantages

- Environmentally friendly and biodegradable.
- Dries clear and odourless
- Is water resistant once cured (will not wash away)
- Non flammable and non toxic
- Non corrosive and non tracking or transferable (will not collect on vehicle tyres)
- UV and alkaline soil resistant
- Single product suitable for a variety of applications
- No unusual storage or ventilation requirements during application

Properties

Physical Form

- Liquid

Colour

- Milky White

Odour

- Mild

Freezing Point

- <0°C

Solubility in Water

- 100%

pH

- 4.5 – 6.0

Specific Gravity

- 1.05 – 1.10

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Yield

See below dilution and application rate based on requirements.

Topical Application	Litres per m ² RD10 Concentrate	+ parts water	Litres per m ² RD10 Dilution
Unpaved Heavy Haul Roads	0.75	5	4.5
Unpaved Roads Heavy Traffic	0.70	6	4.9
Unpaved Roads Light Traffic	0.60	7	4.8
Trails and paths	0.50	8	4.5
Slope erosion control	0.40	3	1.6
Stock Pile Dust control	0.20	9	2.0
Dust control 6 months	0.10	13	1.4
Dust control 12 months	0.15	10	1.6

Pack size

RD10 is supplied in 200L (220 kg) drums. All drums are supplied strapped to wooden pallets.

Application Instructions

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 1L of water per 2.5m² to break the ground surface tension and allow better RD10 penetration.

Any loose aggregate should be removed from the application area.

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.

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.

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 whilst 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.



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.

Storage

Shelf Life

RD10 has a shelf life of 12 months.

Storage Conditions

RD10 should be stored in a cool, dry and well ventilated area out of direct sunlight. Avoid high temperatures (store below 50°C) and freezing conditions (store above 0°C).

Health and Safety

RD10 is non-toxic and non-flammable.

For further information see the relevant Material Safety Data Sheet, access to which is available on the Minova website: www.minova.com.au

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