

TECHNICAL BULLETIN



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CRUSTEX

MATERIAL & FUNCTION

CRUSTEX has been designed and developed for harsh native environments and landscapes found in remote areas construction and mining sites.

CRUSTEX is a user friendly, environmentally safe, synergistic system combining natural lignin polymers with non-toxic synthetic polymers to create a unique heavy duty protective crust forming protective coating and dust control agent.

The specialized manufacturing processes through which CRUSTEX is produced enable a higher than normal dilutions to provide a tough bio-compatible crust as a soil binder for sand, soils, mineral aggregates and other loose and friable and fine particulates.

CRUSTEX is excellent for soil stabilisation during afforestation and plant/grass regeneration. Plants will readily germinate and grow through the protective crust formed after application.

CRUSTEX has the benefit of not allowing excessive heat buildup to occur thereby increasing the success rate of plants. The crust formed by CRUSTEX has excellent adhesion even with small particle sizes of 0.074 - 0.250 mm which allows for aerial spraying programs. CRUSTEX has high penetration qualities of up to 12 mm. on some substrates. CRUSTEX will absorb moisture from humid air masses passing over the protective crust and will not inhibit absorption of rainfall. In the appropriate concentrations, durable protection of at least 2 years has been achieved before bio degradation into environmentally friendly and safe compounds.

A significant advantage of CRUSTEX is that it is flexible thereby reducing damage to the protective coat due to foot or vehicular traffic. In the event of damage to the crust, it can be re-constituted with a thorough watering of the damaged areas. (In areas of extreme damage some additional application of CRUSTEX may be required). CRUSTEX can be coloured to provide identification of vegetation eg. green for pasture, dark green for tree line.

CRUSTEX is non-hazardous to animal, insect and plant life. It is non-staining and completely biocompatible and biodegradable (with time). The cured film will not taint water catchments nor interfere with natural ecologies.

APPLICATION

NB. ENSURE DRUMS ARE AGITATED FULLY BEFORE MIXING

1. Dust-Mitigation, non-traffic surfaces including lime fertilizer piles

Dilute CRUSTEX with water at indicative rates of 1:10 to 1:20, then apply by spray or other means the diluted fluid onto the dust source areas at approximately 1-2 litres per square metre. Heavier applications will result in a thicker crust being formed for longer life. A preliminary version of

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wetting with a 1% solution of a wetting agent such as ENVIROWET at 500 ml per square metre is advantageous. The inclusion of a compatible wetting agent such as Envirowet will assist in penetration of Crustex into hydrophobic particulates and improve performance of dust control.

2. Surface Stabilisation vs wind erosion (sand dunes, lime piles etc.)

Dilute CRUSTEX at indicative rate of 1:10 to 1:20 with water, apply as low pressure sprinkler spray at 3 - 5 litres per square metre.

3. Afforestation, plant regeneration

Prepare, plant and fertilize as per normal practice then apply CRUSTEX as in (2) above.

4. Hydromulching/revegetation

Add CRUSTEX at the rate of 400 litres per hectare in hydromulching mix to enhance the endurance of the final hydromulch.

NB When placing CRUSTEX in mixing tank, by use of sump pump or similar pumping systems, it is essential to have tank 1/3 full with water, add CRUSTEX then top up with more water to recommended dilution rate. CRUSTEX can be mixed with high salt content water up to 4500 ppm. In these cases CRUSTEX should be applied as soon as possible.

Spraying of CRUSTEX should not be carried out when air or ground temperature is less than 5°C, during heavy rain or when rain is likely within 3 hours of spraying.

CLEANING

Spray equipment must be thoroughly rinsed with water and a detergent based product such as S.21 before and immediately following use. It is most important to clean lines and spray heads promptly, before the light-activated curing system produces hard insoluble deposits of resin - usually within 1 hour of evaporation. If this situation occurs use of ENVIROSHIELD 400 will provide complete cleaning of equipment.

TECHNICAL SPECIFICATIONS

Base

Specially modified water based emulsion of a thermoplastic resin incorporating esterified and alcoholised hydrocarbon resins and specially modified lignin polymers derived from wood pulp.

Colour

Milky tan to brown colour.

S.G at 20°C

1.07 ± 0.01.

pH

6 ± 0.5

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Viscosity at 20 deg. C

Approximately 1200 Brookfield viscometer RVT 20 r.p.m. - 120.

Odour

Sweetish/negligible.

Particle size

0.75 - 2 microns

Diluent

Water

Hazard

Not hazardous under Worksafe Australia guidelines.

Toxicity

Non toxic

Eco-compatibility

Will not harm the environment.

STORAGE

CRUSTEX may be stored for at least 6 months. Containers must be protected from frost and direct sunlight and should be kept undercover until required. If stored for lengthy periods, CRUSTEX drums should be agitated 24 hours before use.

PACKAGING

20, 200 Litre containers & 1000L bulki

IMPORTANT NOTICE TO CUSTOMER

Since the use of this product is beyond the control of either seller or manufacturer, their only obligation shall be to replace any quantity of product which is proven defective. They cannot assume any risk or liability in excess of the purchase price of the product itself, which does not include labour or any consequential damages resulting from the use of this product. Determining the suitability of this product for any intended use shall be solely the responsibility of the user. ALWAYS TEST FIRST.