

DMT-C®

Dust Membrane Technology

APPLIED A3152C

Description:

DMT-C® is a specially designed membrane film for the suppression of dust during the transport and storage of coal and mineral ores. Initially designed as a veneer coating system, DMT-C is now finding application where bulk ore treatments are needed. When sprayed on to the surface or dispersed within the bulk of the coal or mineral ore, the liquid phase evaporates leaving a flexible film, binding particles to prevent dust formation.

Intended Use:

DMT- C® is administered by spray, either as a veneer or bulk coating, prior to transport. The product is used at ambient temperature.

DMT- C® offers an environmentally acceptable method of controlling dust as it does not contain petroleum fractions, oil, heavy metals or other materials that may impact on the surrounding environment or produce harmful by-products during subsequent processing operations.

DMT- C® is operator safe and easy to use. Automatic dosing systems are available to minimise exposure during application. DMT- C® is not a skin or respiratory irritant and has only a mild and transient irritant effect on eyes. DMT- C® is not hazardous by ingestion.

DMT- C will not cause any adverse effects on downstream operations such as stockpile recovery and thus will not increase handling costs.

Product features:

Non-solvent, non-hazardous formulation that does not affect the further processing of coal or mineral ores.

Contains specially selected wetting agents that ensure an even coating over the surface.

Made up solutions are specially formulated to minimise misting and thus reduce losses in high wind conditions.

Readily biodegradable and does not contain polymers that may degrade to harmful by-products.

Safe to use and environmentally acceptable.

Easily diluted and mixed with water.

Provides very effective veneer coatings at low application rates per sq. metre.

Typical Physical Properties:

Technical data should be considered representative or typical only and should not be used for specification purposes.

Appearance:	Opaque slightly viscous liquid.
pH (concentrate):	5.0
Specific Gravity (g.cm⁻¹):	1.00
Flashpoint:	Nil (non-flammable)
Classification:	Non-hazardous

Directions for Use:

- DMT-C® should be pre-diluted to the required concentrations prior to spraying on the coal or mineral ore.
- For Veneer coatings, pre-dilute to 3-4% v/v and apply the diluted mixture at a rate of 50 to 100 litres per 100 sq. metres, for both stockpiles road verges, and the surfaces of transport vehicles.
- For bulk treatment of materials, pre-dilute to 0.25-1.0% v/v and apply at the rate of 15-30 litres per tonne of material to be treated. This will provide an application rate of 37.5 to 300 ppm DMT-C®. Spray systems are recommended to be installed at points of maximum turbulence to maximise coating of all particle surfaces.
- DMT-C® is a water-soluble treatment and therefore its performance will be diminished should the coal or mineral ore be subjected to cyclic weather conditions involving rain. Where stockpiles are exposed to rain, followed by periods of high temperature conditions, it is recommended that a light veneer coating be applied.

Dilutions:

Veneer coatings: Use at 3 - 4% v/v and 50-100 L / 100 sq. metres.

	<p>Bulk coatings: Use at 0.25 -1.0% v/v concentrations and 15-30 L per tonne (38 - 300 ppm dosing rate)</p>
Storage:	Store at -1°C - 59°C.
Precautions:	Please refer to appropriate safety data sheet (SDS) prior to using this product. For technical assistance, please call 1800-063-511 FOR INDUSTRIAL USE ONLY
Warranty:	Applied will replace any material found to be defective. Because the storage, handling and application of this material is beyond our control, we can accept no liability for the results obtained.
Disclaimer:	All information on this data sheet is based on laboratory testing and is not intended for design purposes. ITW Polymers & Fluids and Applied makes no representations or warranties of any kind concerning this data.
Order Information:	A3152C-1000 DMT – Dust Membrane Technology 1000 L (IBC) DMT-C® is a registered Trade Mark of Illinois Tool Works Inc. in Australia and its Territories.