

Airo-Dust® Additive

Stone Dust Treatment PATENT No. 2009326839

APPLIED A3396

Description: AIRO-DUST® ADDITIVE is a blend of surfactants used as an integral part of the AIRO-DUST® process. The AIRO-DUST process is an innovative wet stone dusting method that assists in the prevention and suppression of fires and explosions in underground coal mines.

Intended Use: AIRO-DUST® ADDITIVE enables the wet stone dust to be foamed onto coal mine surfaces and also works to inhibit the re-crystallization of calcium carbonate. When dry, the stone dust in combination with AIRO-DUST ADDITIVE inhibits caking and assists dispersion during an explosion.

Product features:

- **Reduces downtime**
- **Non-toxic formulation**
- **Foam application**

Typical Physical Properties: *Technical data should be considered representative or typical only and should not be used for specification purposes.*

Appearance:	Clear, pale amber foaming liquid.
pH (concentrate):	6.8
Specific Gravity (g.cm⁻¹):	1.00
Flammability:	Non-flammable
Solubility:	Completely soluble in water

Directions for Use:

1. Make up slurry of stone dust in water. Exact ratio of stone dust to water will vary according to slurry application equipment but would typically be 100 litres of water per 250 kg stone dust.
2. Addition of AIRO-DUST® ADDITIVE into the slurry mix tank can cause foaming problems in the tank and therefore AIRO-DUST® ADDITIVE is typically injected into the slurry as it is pumped from the slurry mix tank. Mixing and treatment of the stone dust slurry occurs within the slurry pumping line. Air is injected into the slurry as the slurry leaves the spray nozzle, and the resulting slurry foam is then applied to the mine walls.

Dilutions:
AIRO-DUST® ADDITIVE is typically added to the slurry at a rate of 10 litres per tonne of dry stone dust, to achieve the desired level of foaming.

Materials Compatibility:
AIRO-DUST® ADDITIVE is pH neutral and does not present any material compatibility issues

Health and Safety:
The AIRO-DUST® ADDITIVE concentrate is classified as hazardous. The in-use slurry is classified as non-hazardous. For detailed health and safety information, consult the Safety Data Sheet.

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:

A3396-15	AIRO-DUST® ADDITIVE 15 L
A3396-3X5	AIRO-DUST® ADDITIVE (Mult x 36)
A3396-200	AIRO-DUST® ADDITIVE 200 L

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