

### Description

A fully biodegradable and natural thickening agent, designed for solidifying liquified spoils or mining tailings into a manageable solid consistency. **Vital Slurry Thick** has been designed to bind, thicken, and solidify the treated material without altering the soil or sedimentary classification. **Vital Slurry Thick's** blend of natural organic gums assists with handling and management of highly suspended solid fluid loads onsite.

### Recommended Application

All construction and mining applications where the management, stockpiling or disposal of liquified spoils or mining tailings is required.

### Features

- Cost efficiency;
- Thickens slurries into manageable solids;
- Solidifies tailings;
- Assists stockpiling;
- Reduces dust and erosion;
- Biodegradable and environmentally safe with inert degradation products;
- A completely environmentally and workplace safe product.

### Specifications

Appearance	WHITE TO OFF-WHITE POWDER	Solubility (water)	SOLUBLE
Odour	SLIGHT ODOUR	Vapour pressure	NOT AVAILABLE
Flammability	COMBUSTIBLE	Upper explosion limit	NOT AVAILABLE
Flash point	300°C	Lower explosion limit	NOT AVAILABLE
Boiling point	NOT AVAILABLE	Partition coefficient	NOT AVAILABLE
Melting point	NOT AVAILABLE	Autoignition temperature	NOT RELEVANT
Evaporation rate	NOT AVAILABLE	Decomposition temperature	NOT AVAILABLE
pH	5.0 – 6.0	Viscosity	3000 cps to 7000 cps
Vapour density	NOT AVAILABLE	Explosive properties	NOT AVAILABLE
Relative density	0.68	Oxidising properties	NOT AVAILABLE
		Odour threshold	NOT AVAILABLE

### Application Directions

**Vital Slurry Thick** is broadcast/scattered evenly across the sludge surface with care taken to minimise airborne discharge.

### Dosage Rates

Due to numerous variables associated with the base material composition and moisture levels, it is not practical to list a standard dosage rate. Testing is to be undertaken to establish the indicative dosage rate of **Vital Slurry Thick** by adding 2g of **Vital Slurry Thick** per 1L/1kg base material sample and mixing evenly across the base sample surface. Leave the sample for 20-30 minutes under ambient and open conditions to solidify to the desired consistency. Repeat the **Vital Slurry Thick** testing process at 2g **Vital Slurry Thick** dosage increments until the desired consistency is achieved. Onsite analysis and assessment by our *Technical Representatives* will ensure the optimum application is employed for each individual site.

Generalised coarse material will require approximately 200g of **Vital Slurry Thick** per tonne of base material.

Generalised fine and or liquefied material will require up to 2kg of **Vital Slurry Thick** per tonne of base material.

### Shelf Life

**Vital Slurry Thick** should be stored at a temperature of min. +5°C to max. +45°C. Shelf life is approximately 12 months.

**Vital Slurry Thick** must be kept in dry, closed original packaging to avoid contact with air and moisture, which can contribute to product contamination and spoiling.

### **Packaging**

**Vital Slurry Thick** is supplied in 25kg and 900kg bulk bags.

### **Precautions**

**Vital Slurry Thick** contains no hazardous substances requiring labeling. For more information, refer to Safety Data Sheet.

For any further product or application advice or instruction, contact Vital Chemical Pty Ltd.

Contractors must undertake appropriate risk assessments to ensure the safe delivery of the product to the application area.

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### **STATEMENT OF RESPONSIBILITY**

The technical information and application advice given in the **Vital Chemical Pty Ltd** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

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### **NOTE**

Field service where provided does not constitute supervisory responsibility. Suggestions made by **Vital Chemical Pty Ltd** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **Vital Chemical Pty Ltd**, are responsible for carrying out procedures appropriate to a specific application.

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