

# WATER-BASED RELEASE AGENT FOR CONCRETE FORMWORK

# DISCRETE EMULSION

## TECHNICAL DATA

### 1.0 DESCRIPTION

DISCRETE EMULSION is a stable, water-emulsion concrete release agent that reacts with the alkali content of concrete to form a bond-breaking film. It is VOC compliant, non-toxic and environmentally safe.

### 2.0 ADVANTAGES & BENEFITS

DISCRETE EMULSION:

- Water based, environmentally safe.
- Stable emulsion - doesn't require continual stirring.
- Is effective on all types of moulds and formwork.
- Increases the life of wood forms by impregnating the timber rendering it water-resistant and improving lifetime.
- Can be applied to forms used in precast concrete manufacture.
- Will not stain or discolour concrete when correctly applied (see precautions)
- Can be used on plastic, rubber and other delicate formwork.

### 3.0 PHYSICAL PROPERTIES

|     |                     |  |
|-----|---------------------|--|
| 3.1 | Colour              | Milky white  |
| 3.2 | Flash Point         | Not Combustible  |
| 3.3 | Viscosity           | Very low (Sprayable)   |
| 3.4 | Toxicity            | Non toxic when used as directed  |
| 3.5 | D.G. Classification | Not Regulated  |
| 3.6 | Shelf Life          | 24 months in original unopened containers not exposed to frost or freezing.  |
| 3.7 | Coverage            | Timber Formwork (porous).....up to 19m <sup>2</sup> /litre<br>Metal Formwork (dense).....up to 40m <sup>2</sup> /litre<br>Coverages are approximate only and will vary depending on porosity of surface. |

# DISCRETE EMULSION

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## TECHNICAL DATA Continued

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### 4.0 USES

DISCRETE EMULSION is effective on all types of moulds and formwork, especially rubber and plastic (test on aluminium forms prior to use). It may be used for architectural and precast concrete as well as for general forming applications. DISCRETE EMULSION may be sprayed daily onto mixers, hoist buckets, wheelbarrows and all other equipment and machinery on which concrete may adhere to keep the concrete soft and easily removed. DISCRETE EMULSION offers excellent resistance to being removed from on rotating moulds.

### 5.0 APPLICATION

- 5.1 Store away from frost. Do not allow to freeze. Any product that does freeze will be unusable.
- 5.2 Application is preferably by spray (wide angle, low flow, flat spray nozzle) which will permit the rates of coverage to be obtained. Brush application may also be employed but the material should be well brushed out to obtain the most economic and effective results. Avoid puddles/ponding. Mop up any excess with a clean cloth or paper towel.
- 5.3 Being a chemical release agent, DISCRETE EMULSION does not rely for its effectiveness on quantity, and is still active although the formwork may appear dry. Do not over apply to new and porous wood.
- 5.4 Formwork is best treated before being erected, thus avoiding contamination of reinforcement. Should reinforcement become coated with DISCRETE EMULSION by accident, it should be painted with cement slurry to react with the DISCRETE EMULSION and this slurry should be brushed off immediately before the concrete is poured.
- 5.5 Once treated, formwork should be protected from precipitation and dust.
- 5.6 DISCRETE EMULSION should be applied to the formwork prior to each use.

### 6.0 PACKAGING

4, 20 and 210-litre containers.

### 7.0 SAFETY & PRECAUTIONS

Read labels before use.

DISCRETE EMULSION may be used on concrete coated with FRACURE EMULSION for concrete site release. Please contact manufacturer for details before use of DISCRETE EMULSION in this type of application.

For non-standard concrete mixes, including those with special admixtures, pigments and other additives, test for release properties and final appearance.

Marks (including polishing or cleaning marks on steel forms, dents, etc.), contamination, etc. present on the form may show on the concrete surface once the concrete is released. Ensure the formwork is clean and free from contamination and surface defects before use and between uses.

DO NOT over apply. Wipe up any puddles or excess material.

Refer to Material Safety Data Sheet for handling and first aid information.



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