UNICOAT MOULD OIL

OIL-BASED RELEASE AGENT



Product Features

UNICOAT MOULD OIL is a ready-to-use, oil-based release agent formulated for aluminium, steel, and other metal formworks. It produces a thin, stable film that acts as a barrier between the formwork and fresh concrete, ensuring clean demoulding and uniform, stain-free surfaces.

By preventing adhesion, it enhances concrete finish quality while reducing damage to formwork, extending its service life.

Advantages

- Ensures **easy and clean demoulding** of formwork
- Produces **smooth, uniform, stain-free concrete finishes**
- Reduces **surface blowholes and blemishes**
- Protects formwork against **corrosion and wear,** extending service life
- **Economical coverage rate**, lowering overall project cost
- Supplied **ready to use**, requiring no dilution or mixing

Fields of Application

- Aluminium and steel formwork systems
- Precast concrete moulds requiring smooth finishes
- General shuttering and mould linings in building and civil works
- Large-scale repetitive casting operations where consistent performance is critical

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UNICOAT MOULD OIL

Physical Properties

Appearance	:	Dark Brown Liquid
Specific Gravity	:	0.87 – 0.97 @ 25 °C
Typical Coverage*	:	15 – 18 m²/L per coat (depending on porosity and application method)
Packaging	:	206 L Drum
Shelf Life	:	12 months in original unopened container
Storage Conditions	:	Store in a cool, dry area. Protect from frost, direct sunlight, and excessive heat

* Coverage varies depending on substrate condition, surface porosity, and application method.

Important Note / Special Note

- Not recommended for use on plastic or resin-based formworks.
- Over-application may cause dusting, staining, or patchy surfaces.
- Should not be applied on contaminated formwork surfaces or those treated with curing agents.
- Not suitable where high early-strength surface finishes are required without prior site trials.

This technical data sheet is given in good faith and does not guarantee the application work.
All Unity Reliance technical data sheets & method statements are updated on a regular basis and can be subject to change without notice.
It is the user's responsibility to obtain the latest version of the information required.

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Installation Procedures

1 Surface Preparation | 2 Application | 3 Finishing & Precautions

Installation Procedures

Step 1

SURFACE PREPARATION

All formwork surfaces must be **clean, dry, and free from oil, grease, dirt, laitance, or hardened concrete residues**.

Contaminated or previously treated formworks should be cleaned thoroughly before application to ensure optimum performance.

Step 2

APPLICATION

Stir the product gently before use to ensure homogeneity. Apply **UNICOAT MOULD OIL** by **brush, roller, or low-pressure spray** equipment fitted with a fine nozzle. The product should be applied as a **thin, uniform film** across the formwork surface. Excess material must not be allowed to accumulate; any surplus should be drained and carefully removed from edges with a sponge or cloth.

Step 3

FINISHING & PRECAUTIONS

For best results, apply one coat **immediately before concreting**. Avoid over-application, as this can lead to dusting, staining, or patchy concrete surfaces. Do not dilute the product or mix with other release agents.

Shelf Life & Storage

Store locked up, in the original closed container, under shelter in a dry place at 5 – 40 °C.
UNICOAT MOULD OIL will maintain a shelf life of 12 months if unopened and stored as recommended.

Health & Safety

Do not handle until all safety precautions have been read and understood. Avoid inhalation of mist, vapours or spray. Handle only in a well-ventilated area. Wear protective gloves and eye protection. Avoid release to the environment. If inhaled: remove victim to fresh air and keep comfortable for breathing. Call a poison center if you feel unwell. In case of eye contact: flush thoroughly with water, lifting eyelids. If exposed or concerned: seek medical attention. Collect spillage. Refer to the **Material Safety Data Sheet (MSDS)** for detailed health and safety information.

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