

REC RELEASE AGENT

CHEMICAL MOULD - RELEASE AGENT

DESCRIPTION

REC RELEASE AGENT is specially formulated blend of mineral oils and chemicals having release properties which are superior to those of a conventional mould oil. The chemicals react with the alkali in the concrete to form a thin water repellent skin on the surface of the mould, thereby enabling easy stripping from concrete and acting as a protection to steel and wooden formwork.

REC RELEASE AGENT is supplied as a pale straw-colored liquid ready for direct application and use.

PRIMARY APPLICATIONS

To provide quick, clean and easy stripping of moulds, and formwork and ensure high quality fair-faced and stain-free concrete.

FEATURES/BENEFITS

- Ensures easy release, good fair-faced concrete
- Can be used on all types of formworks
- Minimizes surface blemishes and staining
- Minimizes cleaning of shutters before re-use
- Reduces opportunity of damage to formwork, extending usable life.

TECHNICAL INFORMATION

Form:	Liquid
Color:	Clear oily liquid
Specific gravity:	0.83 at 27°C
Service temperature:	Suitable for use with steam cured concrete.
Formwork surfaces:	Equally effective on wood or metal moulds and shutters. Particularly effective on GRP and other resinous coatings including REC RELEASE AGENT coated wooden surfaces.
Non-staining:	Does not stain concrete and can also be used safely with white cement.

Concrete surface quality:

In addition to preventing adhesion of the cement paste to the mould or shutter face, **REC RELEASE AGENT** allows air, which would otherwise be trapped, to escape from the face when the concrete is being poured and vibrated.

Pockets of air, trapped on the shuttered faces of concrete, are a major cause of imperfections, necessitating remedial work. **REC RELEASE AGENT** avoids time and money spent on this.

The chemical reaction between **REC RELEASE AGENT** and the cement in a concrete mix produces a strongly hydrophobic surface. This repels surplus water at the interface with the mould and by protecting the concrete from its effects, preserves uniformity of surface texture and colour.

Re-use of moulds:

Due to excellent release properties, little or no deposit of cement paste remains on the shutter surface. Minimum cleaning down and further coat of **REC RELEASE AGENT** renders shutters ready for reuse.

Economic benefits:

On account of the high rate of coverage, the applied cost of **REC RELEASE AGENT** compares favorable with that of conventional mould oil. Having regard to the technical benefits additionally obtained, the overall economy of using **REC RELEASE AGENT** can be significant.

DIRECTIONS FOR USE

APPLICATION

Preparation of new moulds

No preparation is necessary, but if extensive reuse of timber mould is envisaged, it is advisable to protect all new surfaces with **REC RELEASE AGENT**. **REC RELEASE AGENT** protects timber from alkali attack which can result in a very short usable life. For used moulds, all traces of cement must be removed together with any surface deposit of previous oils.

Coating

REC RELEASE AGENT can be applied by brush, sponge or conventional mould oil-sprayer. If a mould oil-sprayer is used, care should be taken to ensure that the correct nozzle size is chosen. Stir the contents of the container thoroughly before use. Apply one coat of **REC RELEASE AGENT** thinly and evenly over the entire surface. Only the thinnest coating necessary to achieve effective coverage should be applied. Excess application is uneconomical and may lead to surface dusting.

Wipe or brush off any particles that may remain on the surface and apply one coat of **REC RELEASE AGENT** as previously. If it is required to remove **REC RELEASE AGENT** completely, a strong industrial detergent should be applied together with stiff brushing and then thoroughly rinsed with clean water.

CONSUMPTION

A coverage between 20 to 60m² per liter is possible depending upon the porosity and texture of mould surface.

PACKING

REC RELEASE AGENT is available 30 L and 210 L drum.

SHELF LIFE

12 months. It must be stirred thoroughly before use.

Fire

Due to the high flash point the flammability risk of **REC RELEASE AGENT** is low. Ensure adequate ventilation. Using **REC RELEASE AGENT** near naked flame or smoking during use should be avoided.

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