

SHUTTERING OIL

Emulsified Mould Release Agent for Concrete and Mortar Form Works



PRODUCT DESCRIPTION

Shuttering Oil is specially formulated blend of mineral oils and chemicals with water having releasing 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. Shuttering Oil is supplied as a white brownish liquid ready for direct application and use.

FEATURES & ADVANTAGES

- Ensures easy release, reducing damage and improving efficiency of production
- Minimizes surface blemishes and staining, promoting high quality fair-faced concrete
- Reduces opportunity of damage to formwork, extending usable life
- Minimizes cleaning of formwork before reuse
- Suitable for use with all types of formworks such as wood, steel, aluminium, shear wall shuttering and plastic.
- Protects steel formworks – resist to corrosion.

USES

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

APPLICATION METHOD

SURFACE PREPARATION

All new surfaces with Shuttering Oil, will protects form works 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

Shuttering Oil 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 Shuttering Oil 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 Shuttering Oil as previously. If it is required to remove Shuttering Oil completely, a strong industrial detergent should be applied together with stiff brushing and then thoroughly rinsed with clean water.

TECHNICAL DATA

Specific Gravity	0.96 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 Shuttering Oil coated wood, steel, aluminium, shear wall shuttering and plastic.
Staining	No significant staining observed on normal concrete. However not recommended for use with white cement
Concrete surface Quality	In addition to preventing adhesion of the cement paste to the mould or shutter face, Shuttering Oil 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. Shuttering Oil avoids time and money spent on this.

The chemical reaction between Shuttering Oil 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.

PACKING

Shuttering Oil is supplied in 20 liters Can.

COVERAGE

A coverage for Wooden surface is 35 to 40 m² and for steel surface is up to 60 m² per liter is possible depending upon the porosity and texture of mould surface. Initial absorption of the material will be high on fresh plywood sheets and coverage will improve on the used shuttering material.

STORAGE & SHELF LIFE

- Stored in a cool and dry place at recommend temperature between +5°C to 25°C conditions.
- 12 months from month of manufacturing in unopened packaging.

CAUTION

Gloves should be worn when handling Shuttering Oil. Splashes on the skin should be removed with soap and water. Refer material safety data sheet for additional information. Good ventilation should be ensured.

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