

## Chemical mould - release agent

### Uses

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

### Advantages

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

### Description

Reebol 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 striping from concrete and acting as a protection to steel and wooden formwork.

Reebol is supplied as a pale straw coloured liquid ready for direct application and use.

### Technical Support

Fosroc provides a technical advisory service supported by a team of specialists in the field.

### Properties

**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 Reebol 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, Reebol 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. Reebol avoids time and money spent on this.

The chemical reaction between Reebol 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 Reebol renders shutters ready for reuse.

### Economic benefits

On account of the high rate of coverage, the applied cost of Reebol chemical mould release agent compares favourable with that of conventional mould oil. Having regard to the technical benefits additionally obtained, the overall economy of using Reebol can be significant.

### Application instructions

#### 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 Reebol. Reebol 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

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

## Estimating

### Packaging

Reebol is supplied in 200 litre drums 20 litre and 5 litre containers.

### Coverage

A coverage between 20 to 60m<sup>2</sup> per litre is possible depending upon the porosity and texture of mould surface.

### Storage

### Shelf life

12 months. It must be stirred thoroughly before use.

### Precautions

### Health & safety instructions

Gloves should be worn when handling Reebol. Splashes on the skin should be removed with soap and water. Contact with eyes must be avoided and accidental contamination should be washed thoroughly with plenty of water and medical treatment sought immediately. Good ventilation should be ensured and smoking during use is prohibited.

### Fire

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

### Additional information

The Fosroc range of associated products includes high strength cementitious grouts, epoxy grouts, polyester resin based mortar for rapid presetting of steel shims to level or for direct bedding of small base plates; Resin Anchoring systems for same day anchoring of bolts in drilled holes in concrete or rock. Also available are a range of products for use in construction; viz., admixtures, curing compounds, release agents, flooring systems and repair mortars.

Separate datasheets are available on these products.

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### Important note :

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