

MOULD FREE CP

Concentrated and emulsified chemical mould release agent

● Uses:

For easy and stain free release of concrete moulds and for work of all types. Particularly where wooden formwork is used and de-moulding or stripping times exceed 24 hours.

● Advantages:

1. **Non-staining:** No cleaning of unsightly oil stains if plastering is not required.
2. **High quality:** Produces really fair faced finish concrete
3. **Versatile:** Can be used on all types of moulds.
4. **Minimizes cleaning:** Makes cleaning of form faces between pours very easy.
5. **Concentrate form:** Reduces storage and transport costs.
6. **Water based:** Only requires water for dilution.
7. **Corrosion Inhibition:** Aids corrosion inhibition

● Description:

MOULD FREE CP is supplied as a pale amber liquid which turns white when diluted with water to produce a chemical release agent, combining the outstanding release properties of such materials with the economy of conventional oil. It reacts with the alkali in the concrete to form a thin water repellent skin on the surface of the mould which enables easy stripping from the hardened concrete.

● Properties:

- **Dilution rate:** 1 part MOULD FREE CP: 6 parts clear water (by volume)
- **Formwork surfaces:** - May be used on wooden or metal surfaces. Particularly effective on resinous coated surfaces.
- **Non-staining:** - Can be used safely with white cement.
- **Specific Gravity:** - Typically 0.960 at 25°C

● Mixing:

First dilute MOULD FREE CP concentrate in the proportion of 1:6 with water, using a clean container and stirring thoroughly until evenly mixed. If the solution is not used the same day, it should be stirred again before use and may require very good stirring after 5 days.

● New Moulds:

No preparation is normally necessary. Metal moulds showing signs of rust, must be wire brushed or treated with emery cloth and burnished clean before coating.

● New timber:

Plywood will give superior results.

● Used moulds:

Must be thoroughly clean and free from old concrete, dirt, cement laitance, old mould oil and other contaminations. Use a strong detergent for removal of oil and grease; Recliner for cement and concrete deposits.

● Application:

Apply the MOULD FREE CP 1:6 water dilution to the face of the formwork by spray, brush or cloth. Only one coat should be applied (as thinly as possible except on very absorbent new timber where two coats may be necessary for the first application only) and allow to dry. If the formwork is not used for several days, a further coat may be applied. Only a very thin film of MOULD FREE CP should be applied. Excess could lead to surface dusting of the concrete. The best results are obtained by applying with a fine mist sprayer. Where a cloth is used, it should first be soaked in the release agent and then squeezed out well before applying. This ensures the thinnest possible film. MOULD FREE CP is not generally recommended where remoulding is required within 24 hours, although excellent results may be obtained with shorter times.

● Drying time:

It is essential that the MOULD FREE CP is thoroughly dry before placing concrete. Otherwise, being an emulsion, its performance may be impaired. In condition of high humidity drying times will be much longer than in warm dry conditions.

● Rainfall:

It is necessary to protect freshly coated formwork from rain which may dilute the emulsion before it has dried. After drying the coating will withstand an occasional lightly shower but may be affected by heavy or continuous rain. In such cases, a further coat is advised once surfaces have dried out thoroughly.

● De-molding:

De-molding can be carried out in the normal way and no special precautions are necessary.

● After de-molding:

Formwork surfaces must be thoroughly cleaned, but this is normally easy due to the excellent release action.

● Before re-use:

The cleaned formwork surfaces must be recoated with MOULD FREE CP each time, in accordance with normal practice.

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● Maintenance:

MOULD FREE CP is an internationally used material and has an outstanding record of performance. On rare occasions the normally high level of performance is not achieved but in most cases, the problem is a simple one and easily identified by the following check list :

1. Are mould surfaces really clean before re-use
 2. Is a fresh coat of MOULD FREE CP applied before each re-use
 3. Has the MOULD FREE CP been diluted exactly 1:6 with water by volume
 4. Is the coverage rate the highest and the film thickness the lowest possible
 5. Is the coat really dry before placing the concrete?
(Remember a change in weather can alter drying times significantly).
 6. Is the de-molding time 24 hours or more
- if the answers to one or more of these questions are 'No', it usually explains the reason for the problem experienced which can be rectified accordingly

● Packaging:

MOULD FREE CP is supplied in 50 and 200 liters containers.

● Coverage:

1 litre of MOULD FREE CP when diluted with 6 liters' of water will cover 80 to 180 m² depending upon the nature of the substrate.

The highest coverage rate must be aimed for - As a guide unsealed timber or plywood - 80 to 115 m² / 7 liters of solution. Steel or sealed plywood - 120 to 180 m² / 7 liters of solution. If coverage rates are appreciably less than these and satisfactory results are not being achieved, then coverage should be increased as close to the higher figure as possible

● Storage:

MOULD FREE CP has a shelf life of 12 months provided the temperature is kept in the range of 5°C - 40°C. If this temperature is exceeded in any respect, advice should be sought from the supplier. Diluted MOULD FREE CP will remain stable for at least 5 days but must be re-stirred before use.

● Precautions:

Health and safety instructions:

Gloves should be worn when handling MOULD FREE CP. Splashes on skin should be removed with soap and water. Contact with eyes should be avoided and accidental contamination should be washed with plenty of water and medical treatment sought immediately. If swallowed, obtain immediate aid. Do not induce vomiting. Ensure good ventilation

● Fire:

Flash point of MOULD FREE CP is approximately 61°C

● Note:

ARROTILE products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale,