

MAXCURE[®] MRA 102

Concentrated and Emulsified Vegetable Oil Based Mould Release Agent



Maxcure[®] MRA 102 is a vegetable oil based chemical mould release agent supplied as a pale amber liquid which turns white when diluted with water. It is an effective solution with excellent release properties paired up with the economy of conventional oils. The chemistry of Maxcure[®] MRA 102 allows it to form a thin water repellant layer on the surface of the mould by virtue of its reaction with the alkali in the concrete to facilitate easy stripping from the hardened concrete.

Uses

- For easy and stain free release of concrete from moulds and formwork of all types.
- For easy demoulding specifically from wooden formwork
- Where de-moulding or stripping times exceed 24 hours.

Benefits

- **Non-Staining:** No cleaning of unsightly oil stains if plastering is not required.
- **High Quality:** Produces really fair faced finish concrete.
- **Versatile:** Can be used on all types of moulds.
- **Minimizes Cleaning:** Makes cleaning of form faces between pours very easy.
- **Concentrate Form:** Reduces storage and transport costs.
- **Water Based:** Only requires water for dilution.
- **Eco-friendly:** Vegetable oil based

Technical Support

Thermax offers technical support service to specifiers, end-users and contractors, as well as on-site technical assistance in locations all over the country.

Properties

- **Dilution Rate-** 1 part Maxcure[®] MRA 102: 5 parts clear water (by volume)
- **Formwork Surfaces-** May be used on wooden or metal surfaces. Particularly effective on resinous coated surfaces including wooden surfaces.
- **Non-Staining-** Can be used safely with white cement.
- **Specific Gravity-** Typically 0.92 to 0.96 @ 25°C

Instructions for Use

Mixing

First dilute Maxcure[®] MRA 102 concentrate in the proportion 1:5 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 made clean before coating.

New Timber: Plywood will give superior results and much extended re-use if first coated with Maxcure[®] MRA 102.

Used Moulds: These must be thoroughly clean and free from old concrete, dry, cement laitance, old mould oil and other contaminations. Use a strong detergent for removal of oil and grease, Maxcure[®] 10 for cement and concrete deposits.

Application

Apply the Maxcure[®] MRA 102 1:5 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 Maxcure[®] MRA 102 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 applying. This ensures the thinnest possible film. Maxcure[®] MRA 102 is not generally recommended where demoulding is required within 24 hours, although excellent results may be obtained with shorter times.

It is essential that the Maxcure[®] MRA 102 is thoroughly dry before placing concrete. Otherwise, being an emulsion, its performance may be impaired. In conditions of high humidity drying times will be much longer than in warm dry conditions.

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

After de-moulding: 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 Maxcure® MRA 102 each time, in accordance with normal practice.

Maintenance

Maxcure® MRA 102 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.

Are mould surfaces really clean before re-use? Is a fresh coat of Maxcure® MRA 102 applied before each re-use? Has the Maxcure® MRA 102 been diluted exactly 1:5 with water by volume? Is the coverage rate the highest and the film thickness the lowest possible? Is the coat really dry before placing the concrete (remember a change in weather can alter drying times significantly)? Is the de-moulding time 24 hours or more?

If the answers to one or more of these questions is 'No' is usually explains the reason for the problem experienced which can be rectified accordingly.

Health and Safety Instructions

Gloves should be worn when handling Maxcure® MRA 102. 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 medical aid. Do not induce vomiting. Ensure good ventilation.

Storage

Maxcure® MRA 102 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 Thermax office shall be

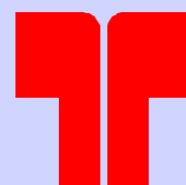
contacted. Diluted Maxcure® MRA 102 will remain stable for at least 5 days but must be re-stirred before use.

Packing

Maxcure® MRA 102 is supplied in 5, 20 and 200 litre containers.

Coverage

1 litre of Maxcure® MRA 102 when diluted with 5 litres of water will cover 80 to 160 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 100m² /6 liters of solution. Steel or sealed (Maxcure wood-coated) plywood- 120 to 160 m²/6 litres of solution. If coverage rates are appreciably less than these and satisfactory results are not being achieved, than coverage's should be increased as close to the higher figure as possible.



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- Protective Coatings • Industrial Flooring • Waterproofing • Sealants • Adhesives

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