



Mapeform Eco 91

Form release-agent based on vegetable oils in water emulsion with chemical action

WHERE TO USE

Anti-adhesive treatment of iron, aluminum and plastic forms (epoxy, phenolic, polyester and polyurethane resins). It is particularly suitable for horizontal and vertical applications.

Some application examples

- To facilitate form release of precast concrete. Its high viscosity makes it particularly suitable for vertical applications on formworks where it is important to limit product pouring when sprayed.
- To facilitate form release of steam-cured concrete;
- To form release concrete cast in plastic forms;
- To form release concrete cast in metal forms.

TECHNICAL CHARACTERISTICS

Mapeform Eco 91 consists of a stable emulsion of vegetable oils, corrosion inhibitors and special admixtures developed in the MAPEI Research Laboratories.

The efficiency of **Mapeform Eco 91** is given by its action of chemical concrete stripping from formwork.

Mapeform Eco 91 features the following advantages:

- improved surface quality thanks to the drastic reduction of large and micro surface air bubbles;
- no surface dusting;
- no grease stains, even with white cements;
- less cleaning of forms;
- simple low-cost application;
- **easily and rapidly biodegradable**; non toxic, does not irritate and does not cause sensitization;

- not subject to the Italian law for the use of form release-agents based on mineral oils.

RECOMMENDATIONS

- Do not dilute **Mapeform Eco 91** with water.
- Do not dilute **Mapeform Eco 91** with solvents or other oils.
- Preferably use **Form Release Agent DMA 1000** with raw wood forms.
- Do not use **Mapeform Eco 91** with concrete, gypsum or polystyrene forms.
- When using with rubber forms make sample tests or contact the MAPEI Technical Services Department.

HOW TO USE

Mapeform Eco 91 is ready-to-use.

Application

Apply **Mapeform Eco 91** on the clean, dry formwork, preferably in a single coat, using pumps or atomisers at a pressure of 6 bar. To get the best finish, we recommend wiping over the formwork with a cotton wool rag, although this step is not absolutely necessary. For effective stripping of forms, do not exceed recommended dosage. This can cause the formation of a fine dust on the surface which can alter the final finish.

Cleaning

Tools used for applying **Mapeform Eco 91** can be cleaned with water.

Mapeform Eco 91



TECHNICAL DATA (typical values)

PRODUCT IDENTITY

Consistency:	fluid liquid
Colour:	white
Density (g/cm ³):	0.95 ± 0.02 at +23°C
Brookfield viscosity at +23°C (cPs):	< 50 (1 shaft - 20 revs)
Release action:	chemical

APPLICATION DATA

Preparation:	ready-to-use
Application:	suitable pressure pump > 6 bar

CONSUMPTION

Metal forms: 15-25 g/m².
Plastic forms: 15-25 g/m².

STORAGE

Mapeform Eco 91 can be stored for 12 months in sealed containers away from prolonged, direct exposure to sunlight and at a temperature between +5°C and +35°C.

PACKAGING

The product is supplied in 1000 l IBC, 200 l drums and 23 and 4.5 kg tanks.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapeform Eco 91 is not considered hazardous according to current standards and regulations regarding the classification of mixtures. It is however recommended to use gloves, eyes protection and to take the usual precaution taken when handling chemical products.

For further and complete information about the safe use of our product please refer to our latest version of the Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com

All relevant references for the product are available upon request and from www.mapei.com



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