

Disarmante Eco

TECHNICAL CONCENTRATED RELEASE AGENT, EMULSIFIABLE IN WATER, IDEAL FOR EASY AND SAFE MOULD RELEASE PROCESSES. PROVIDES A COMPACT FINISH WITHOUT ANY MARKS ON THE CONCRETE SURFACE. FOR WOOD AND IRON FORMWORK.



TECHNICAL DATA SHEET - REV. 01/2022

DESCRIPTION

DISARMANTE ECO is a water-emulsifiable chemical release agent of a synthetic nature that can be emulsified in water, is universally used and easy to apply, and is specifically designed for demoulding cement works and artefacts. Due to the special formulation of the product, the cement hydration compounds that develop within the concrete remain physically separated from the formwork surface. This allows the formwork to be easily detached from the surface of the part even in the case of very delayed demoulding.

FIELDS OF APPLICATION

DISARMANTE ECO is used in all areas where a dismantling action of cement-based works or artefacts is required. It can therefore be used in heavy and light prefabrication as well as in shipbuilding.

It is recommended for stripping on wooden formwork and where it is important that the concrete not get stained by residual resin from the planking. The product can also be used with all types of non-absorbent formwork, e.g. metal, treated wood, plastic material. The stripped concrete surfaces are free of anti-adhesive residues and can therefore be treated with paints, varnishes or plasters without surface cleaning cycles. In addition, the concrete surface remains more uniform and visually better with no staining and fewer macro-bubbles than when using non-reactive release agents of mineral origin.

APPLICATION

In the presence of new or newly restored metal formwork following rusting, the 'live' metal surface reacts with the release agent promoters to form a surface passivated layer. Therefore, in this case it is suggested to repeat the application of the release agent in order to achieve an adequate release action. However, it must be considered that the best formwork results are achieved after at least 5 to 10 uses of the formwork.

DISARMANTE ECO must be emulsified in water before use and applied to previously cleaned formwork in a light, homogeneous layer by spraying or brushing. For optimal dilution, prepare half the dilution water in a container. Add the product, taking care to keep it stirred. When finished, add the remaining water and finish stirring. Use clean or otherwise potable water for dilution. The use of contaminated water makes the emulsion obtained unstable. The optimal application in terms of uniformity of the release film is done by means of special sprays with comb nozzles and operating pressures above 4 atm.

YIELD

80-100 m²/L, depending on the material and maintenance conditions of the formwork.

RECOMMENDATIONS

- ◆ DISARMANTE ECO used as is and applied by brush or roller on metal formwork produces a strong retardation in the surface cement grout to a thickness of about 2 mm.

- ◆ Too high a dosage of DISARMANTE ECO on the formwork does not improve the stripping action but worsens the overall appearance of the concrete, increasing bubbles and surface stains.

PACKAGING

DISARMANTE ECO is supplied in 25 kg cans on 825 kg pallets, in 10 kg cans on 600 kg pallets and in 5 kg cans on 450 kg pallets. Store the product in a dry place and in its original packaging, well closed. In these conditions, its stability is of at least 9 months.

SAFETY INSTRUCTIONS

Consult the Safety Data Sheet for more information to use the product safely.

SPECIFICATIONS

Disassembly of concrete-type works or artefacts using a water-emulsifiable concentrated technical release agent such as **DISARMANTE ECO** by Colmef Srl.

TECHNICAL DATA

Chemical basis:	alkylates
Appearance:	liquid
Colour:	straw-yellow
Density (kg/L):	0.89
Mixing ratio for iron formwork:	1 : 5 water
Mixing ratio for wood formwork:	1 : 20 water

DATA DETECTION AT +23°C - 50% R.H. AND IN ABSENCE OF VENTILATION

The information in this bulletin is based on our best experience. We cannot be held liable for any product misuse. We therefore recommend anyone who intends to use this product to assess whether it is suitable for the intended application and to perform preliminary tests in any case. Always refer to the latest updated version of the technical data sheet available at www.colmef.com.

FOR MORE INFORMATION OR PARTICULAR USES, CONTACT THE COLMEF TECHNICAL SUPPORT DEPARTMENT.

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