

MasterFinish RL 520

Release agent emulsion based on highly refined mineral oil providing exceptional rust protection

Material Description

MasterFinish RL 520 is an oil/water emulsion. In contrast to conventional products, the ingredients ensure good working hygiene. As a very efficient release agent, it ensures excellent demoulding even with complicated formwork. The separating film that forms on the formwork after breaking the emulsion is highly effective, rain-resistant, and rust-protective. The suitability for paints and foams such as polystyrene must be checked in advance. If applied in the correct thin layer, the adhesion of subsequent coatings (e. g. plasters, paints) is not affected.

Areas of application

MasterFinish RL 520 is suitable for use on all conventional formwork types such as steel, wood, and resin-coated formwork. Rubber-lined, silicone or polyurethane moulds are generally compatible with MasterFinish RL 520. However, a compatibility test is strongly recommended since the type of elastomers for formwork is immense. The product has low drainage inclination with vertical formwork. It can be used in MCP, precast and in-situ concrete. When used for in-situ concrete construction, it must be ensured that the formwork panels are protected from weathering until the emulsion breaks

Characteristics and benefits

- MasterFinish RL 520 gives an improved exposed surface of concrete economically by reducing the application time, quicker stripping, easier and faster cleaning of the forms and increased life of the formworks.
- It is safe and eliminates many health and environmental risks as compared to the traditional form release agents based on mineral oils and thus can be used with the maximum confidence by the workers on the job site and precast factory.

Application Procedure

MasterFinish RL 520 is a ready-to-use product that can be applied particularly by a sprayer. Application by brush or roller is not recommended. The spray application should be carried out carefully in order to achieve a satisfactory coverage. The spraying should be done at a suitable distance from the mould (approx. 50 -100 cm) so that the release agent is evenly distributed in a uniform film thickness.

During spraying, it is critical that the spraying pressure is adequately high (3 - 5 bars) and that the gun, especially the nozzle is completely tight in order to avoid dripping.

When spraying with a portable handgun, a stainless-steel flat cone nozzle with a spraying angle from 65° to 80° has been found to give the best results.

The spraying devices or systems to be used must be free of any release agent residues. The release agent must not be mixed with other products or water!

After application on the formwork MasterFinish RL 520 requires a flash-off time of approx. 15 minutes depending on the ambient temperature. Then the concrete can be placed.

MasterFinish RL 520 is suitable for all types of compaction and concrete grades. If shaking technology is used, the factory specifications of shaking time, shaking frequency and the consistency of the concrete should be observed. Concreting should be carried out without interruption or longer breaks. Additional shaking can lead to problems.

Coverage

If applied uniformly on metallic or on impervious material the coverage rate is 65 - 100 m²/liter; resp. 10 – 15 ml/m².

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Storage

MasterFinish RL 520 must be stored protected from frost and direct sunlight in closed original containers for at least 9 months. If this period is exceeded, the remaining quantities should be stirred well. In order to keep the evaporation of the water contained as low as possible and to avoid contamination of the emulsion by dust, the screw connections of the sample container should be loosened loosely, but not removed.

MasterFinish RL 520 is non-flammable, non-toxic or irritant and is not subject to special transport requirements.

Packaging

MasterFinish RL 520 is supplied in Bulk, 1000-litre IBC's and 15-litre containers.

Handling and transportation

No special requirements must be observed during use. Protection gloves and glasses are however recommended. Do not eat, drink, or smoke during the application. Remove contaminated clothing immediately. Wash wetted skin with soap and water. Please refer to the current safety data sheet for further information.

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Product Data	
Appearance:	White milky emulsion
Density (20 °C)	0.97 ± 0.01 g/cm ³
pH-value (20 °C)	8.5 ± 0.5
Application temperature	from 0 °C (preferably 20 °C ± 5 °C)
Logistics	
Shelf life:	9 months if stored according to manufacturer's instructions in unopened container.
Storage conditions:	Store in original sealed containers and at temperatures between 5°C and 30°C. Store under cover, out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.
Handling and transportation:	Refer to MasterFinish RL 520 Safety Data Sheet
Disposal:	Refer to MasterFinish RL 520 Safety Data Sheet

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DISCLAIMER

MasterFinish RL 520, Master Builders Solutions UK Ltd, Version 1

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapour until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

Health and Safety: *For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted. **Spillage:** Chemical products can cause damage; clean spillage immediately.

DISCLAIMER: "Master Builders Solutions UK Ltd" (the Company) endeavours to ensure that advice and information given in Product Data Sheets, Method Statements and Material Safety Data Sheets (all known as Product Literature) is accurate and correct. However, the Company has no control over the selection of its products for particular applications. It is important that any prospective customer, user or specifier, satisfies him/her-self that the product is suitable for the specific application. In this process, due regard should be taken of the nature and composition of the background/base and the ambient conditions both at the time of laying/applying/installing the material and when the completed work is to be brought into use. Accordingly, no liability will be accepted by the Company for the selection, by others, of a product, which is inappropriate to a particular application. Products are sold subject to the Company's standard conditions of sale and all customers, users and specifiers, should ensure that they examine the Company's latest Product Literature.

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