

MasterFinish® RL 211

High quality water based surface consolidation and form release agent

MATERIAL DESCRIPTION

MasterFinish RL 211 is a ready-to-use, water based, non-toxic surface consolidation agent with excellent form release properties. It is readily biodegradable according to OECD Guideline 301.

It has been specially formulated to reduce or eliminate concrete surface imperfections. This unique product, when applied to most forms and form liners enhances the appearance of precast, prestressed and cast-in-place concrete. **MasterFinish RL 211** form release agent significantly reduces production cost through its efficiency, ease of use and its superb release capability.

AREAS OF APPLICATION

- Application to all types of formwork including wood, metal, polyester or plywood where a good surface finish and optimum release are required.
- **MasterFinish RL 211** is not recommended for use on rubber lined forms and where rapid de- shuttering of forms (e.g. block making) is practised

CHARACTERISTICS AND BENEFITS

- Unique product to improve concrete off-form finish and ensure optimum release of formwork
- Improved concrete surface by reducing or eliminating surface voids and defects
- Minimises repair costs associated with patching or polishing to remove surface defects
- Improved surface quality often leads to better prices for finished product
- Non-staining, suitable even for concrete containing off-white cement
- Promotes easy and efficient stripping of forms
- Reduces the need for and cost of frequently cleaning forms by reducing the concrete residue.
- Easy and inexpensive to apply by spray
- Milky appearance means increased coverage by reducing overlapping applications
- Better and safer working environment
- Non-toxic, being made from "skin friendly" ester oils
- Biodegradable
- Suitable for use indoors or outdoors
- Provides a water repellent, rainproof, rust-inhibiting film to the formwork

APPLICATION

Surface Preparation:

1. Forms must be smooth, clean and dry before applying form release agent.
2. **MasterFinish RL 211** form release agent is specifically developed to work at the form surface and cement paste interface. The performance of this product will be significantly hindered by oil contaminants and cement paste build-up. Forms having residue such as this can be wire brushed and wiped with solvent and, then, a dry rag.
3. Once thoroughly cleaned, forms will be maintained in this condition through the use of **MasterFinish RL 211** form release agent and will also produce more visually appealing products as a result. **MasterFinish RL 211** form release agent is compatible with most forms and form liners with the exception of those made of styrene or latex.

Application

1. When spraying **MasterFinish RL 211** form release agent, hold the spray tip at a distance of 2 – 3 feet (60 – 90 cm) from the form surface being treated to achieve proper coverage.
2. It is important that the appearance of the form during application should only be "speckled" as opposed to "wetted." The "white specks" will then flow together to form a very light, uniform film. This process will take between 3 and 10 minutes, depending on ambient and form temperatures and relative humidity. This results in a clear, water-repellent film which is not easily removed by rainfall or concrete placement.
3. **MasterFinish RL 211** form release agent may also be wiped, mopped, rolled or brush applied. However, the potential for over-application is greater when using these methods. Over- application can result in surface dusting or surface tearing.

When spraying with a central inlet pipe system, care must be taken that these are completely cleaned to remove the traditional mould releasers used previously, by flushing the pipes with clean hot water.

When spraying with a portable hand gun, a nozzle size of 0.65mm with an oval orifice has been found to give the best results. During spraying, it is critical that the spraying pressure is adequately high (6 bars) and that the gun, especially the nozzle, is completely tight so that dripping is avoided.

The spray gun should not be left unused for several days as this may lead to nozzle blockage. To avoid the blockage, the nozzle can be immersed in a bucket of water at the end of the day.

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When spraying **MasterFinish RL 211**, a more coarse drop formation takes place compared with traditional oil based mould releasers. This is a definitive health advantage as it reduces the risk of spray mist entering the respiratory system, but it also means that the spray application of **MasterFinish RL 211** should be carefully carried out in order to achieve a satisfactory coverage.

The spraying should be done at a suitable distance from the mould (40-50cm) so that the release agent is evenly distributed in a uniform film thickness. When spraying complex and small moulds with a tendency to splattering, it is useful to rub the surface with cloth after application.

The spray applied emulsion is whitish, and it is relatively easy to observe the dosage and coverage.

The whitish colour will gradually disappear, giving way to a water repellent film on the mould. This process will take from 5 to 20 minutes depending on the ambient temperature, relative humidity and the quantity applied. Whatever method of application is adopted, best results are obtained when **MasterFinish RL 211** is applied in as thin a layer as possible.

If **MasterFinish RL 211** should freeze after application onto the moulds, it will still provide satisfactory releasing effect.

MasterFinish RL 211 is an emulsion. To obtain full releasing effect it is essential that the product has not separated.

MasterFinish RL 211 should have a milky and slightly bluish appearance and it must be homogeneous. If necessary, agitate the product before use.

MasterFinish RL 211 must not be mixed with other products.

MasterFinish RL 211 can be used with all types of concrete and forms except for all rubber lined forms and when forms are removed immediately (eg. block making etc.)

MasterFinish RL 211 may not be used as a bond breaker for tilt up construction.

COVERAGE

When applied by spray, the recommended application method, at a constant 6 bars pressure on metallic or impervious material, the coverage rate is 40 to 100m²/litre.

MasterFinish RL 211 is supplied ready-to-use and as such should not be mixed with other products.

PACKAGING

MasterFinish RL 211 is available in 20L and 200L drums.

STORAGE & SHELF LIFE

MasterFinish RL 211 should be stored in a covered area and at a temperature between -7°C and 35°C.

If these temperatures are exceeded the product may be used if it is returned to temperatures within these limits and remixed thoroughly.

The shelf life of the product, sealed in its original packaging and stored as recommended is 9 months.

PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use this product, make sure that you obtain a copy of the Safety Data Sheet (SDS) from our office or website.

DISCLAIMER

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