



The Chemical Company

# RHEOFINISH® 211

High quality water based surface consolidation and form release agent

## DESCRIPTION

**RHEOFINISH 211** is a ready-to-use, water based, non-toxic surface consolidation agent with excellent form release properties. It has been specially formulated to reduce or eliminate surface imperfections in precast, prestressed and poured-in-place concrete, and to give easy and complete release of concrete when applied to most types of forms or form liners.

## RECOMMENDED FOR

Application to all types of formwork including wood, metal, polyester or plywood where a good surface finish and optimum release are required.

**RHEOFINISH 211** is not recommended for use on rubber lined forms and where rapid de-shuttering of forms (e.g. block making) is practised.

## FEATURES 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**

## 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 100m<sup>2</sup>/litre. **RHEOFINISH 211** is supplied ready-to-use and as such should not be mixed with other products.

## SPECIFICATIONS

Specific gravity, g/cm <sup>3</sup>	0.95
Viscosity, cPS (Emila)	10
Flash point	>100°C
Storage temperature (max/min)	35°/-7°C

## APPLICATION

**RHEOFINISH 211** is a ready-to-use product that can be applied by a sprayer on any type of forms except rubber lined forms. For application of **RHEOFINISH 211** on these types of forms, please contact our local representative.

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.

When spraying **RHEOFINISH 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 **RHEOFINISH 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 **RHEOFINISH 211** is applied in as thin a layer as possible.

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

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

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

**RHEOFINISH 211** must not be mixed with other products.

**RHEOFINISH 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.)

**RHEOFINISH 211** may not be used as a bond breaker for tilt up construction.



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## STORAGE

RHEOFINISH 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.

## PACKAGING

RHEOFINISH 211 is available in 20L and 200L drums.

## SHELF LIFE

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, please make sure that you obtain a copy of the BASF Construction Chemicals **Material Safety Data Sheet (MSDS)** from our office or our website.

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## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

## NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by **BASF** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF**, are responsible for carrying out procedures appropriate to a specific application.

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