

Form release agent for precast elements, if high anti-corrosion properties for steel forms is required

Description of Product

RHEOFINISH[®] 318P is a form release agent based on highly refined mineral oils, biodegradable additives and dearomatized solvents. RHEOFINISH[®] 318P has been specially formulated to provide an easy and complete release of the concrete from steel forms and a significantly improved quality of the concrete surface which is smooth, homogeneous and free of pinholes.

Fields of Application

RHEOFINISH[®] 318P is designed for steel forms, which are susceptible to rust formation while manufacturing precast elements such as slabs and wall elements. It may be applied on heated horizontal and vertical formwork up to 60 °C.

Features and Benefits

RHEOFINISH[®] 318P prevents and eliminates rust stains on steel moulds. Due to the contained corrosion inhibitors and its excellent spreading capacity, RHEOFINISH[®] 318P ensures optimum protection against corrosion.

It 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 formwork. Its low viscosity ensures easy and economical application.

If the product is applied in thin layers the adhesion of subsequent coatings (e.g. plasters, paints) is not impaired. Foams like polystyrene and similar will not be attacked.

- Excellent corrosion inhibition for steel forms
- Ready-to-use
- For all types of concrete
- For normal or delayed stripping

Technical Data/Typical Properties

Appearance	Yellowish, transparent liquid
Specific gravity @ 20°C	Approx. 0.78 g/cm ³
Chloride ion content	≤ 0.1 %
Application Temperature	From -5 °C
Viscosity @ 20°C	Approx. 3 cSt

Application Procedure

RHEOFINISH[®] 318P is a ready-to-use product that can be applied either by a sprayer, brush or a roller on any type of forms. The spray application should be carefully carried out in order to achieve a satisfactory and even coverage. The spraying should be done at a suitable distance from the mould (approx. 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 (4-5 bars) and that the gun, especially the nozzle is completely tight in order to avoid dripping. When spraying with a portable handgun, a slit nozzle with a spraying angle from 65 to 80° has been found to give the best results.

Coverage

The coverage of RHEOFINISH[®] 318P depends upon the application method. If applied uniformly by a sprayer at a constant pressure of 5 bars on metallic or on impervious material the coverage rate is 85 -125 m²/litre.

Compatibility

RHEOFINISH[®] 318P is designed for steel forms but can be used with all types of forms except forms of non oil-resistant rubber or polymers. The contact with zinc-coated metal surfaces must be avoided, because a reaction with the release agent can lead to a blockage of the nozzle. RHEOFINISH[®] 318P must not be mixed with other products.

Packaging

RHEOFINISH[®] 318 P is supplied in 20 litre cans, 210 litre drums, 1000 litre containers or in bulk.

Storage

RHEOFINISH[®] 318 P should be stored in original sealed containers and at temperatures between – 5 °C and + 40 °C. If stored according to the manufacturer's instructions, the shelf life is 18 months.

Handling and transportation

No special requirements need to be observed during use. Protection gloves and glasses are however recommended. Do not eat, drink or smoke during the

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Health and Safety

*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

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.

Spillage

Chemical products can cause damage; clean spillage immediately.

DISCLAIMER

"BASF IBC Admixture Systems Limited" (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.