

Casseroil 400/P

Chemical release agent for concrete

Product description

CASSEROIL 400/P consists of a selected mixture of linear chain synthetic molecules which act to inhibit rust formation on the surface of the formworks.

Linear chain molecules are synthetic chemical products very similar to the raw materials used in production of biodegradable detergents, while natural additives and corrosion inhibitors are made directly from appropriately processed vegetable oils and greases.

CASSEROIL 400/P is a ready-to-use spray-on synthetic release agent. It owes its efficacy to a complex of chemical and physical reactions with cement paste at the concrete/formworks interface.

CONFORMS TO UNI 8866 STANDARDS.

Packages, storage, dosage, yield

- CASSEROIL 400/P is available in 210 litre barrels, 1000 l tanks or in bulk delivered by tank truck;
- Product yield: 50-60m² per litre.

Fiscal regulations

Under current tax legislation the CASSEROIL 400/P release agent does not require any documentation other than the usual shipping document, and does not require keeping of any tax registries. The product is not classified as petroleum-based. The wording "Product not subject to transport and storage restrictions" appears on all Ruredil invoices.

Quantities kept in storage may be classified as "chemical products" rather than "petroleum products" and need not be added to the quantity of petroleum products already in storage on the site or in the prefabrication plant for other uses (steam curing fuels, etc).

Recommendations for use

Do not exceed the recommended dosages; excessive dosage would affect the result of the cast and the final appearance of the cast surface;

wipe away excess product with a dry cloth;

if product is sprayed in an insufficiently ventilated place, provide operators with individual protective devices;

if product is accidentally spilled, use sand or sawdust to collect it and then send it for incineration.

Properties

Use of CASSEROIL 400/P permits subsequent surface treatment with paint, plaster, protective coatings, etc.

Use of CASSEROIL 400/P reduces the need for formworks cleaning and maintenance, ensuring greater productivity and lower costs.

Process of action

Release agents may be divided into "physical" and "chemical" according to how they work.

CASSEROIL 400/P is a chemical release agent. Its various components may be divided into two functional categories: some components are the "vehicle" while others are "additives".

The purpose of the vehicle is to permit easy, uniform distribution of release agent on the formworks; this distribution must take place with use of simple, safe, economical tools.

Once the release agent has been distributed over the formworks, the vehicle must generate a thin liquid layer which will flow between the formworks and the concrete.

This liquid layer must be capable of resisting the mechanical stress produced during casting and vibration of the manufacture.

The vehicle's primary purpose is to retain additives between the formworks and the concrete, preventing them from being dispersed in the mass of the mix.

The purpose of the additives is to contrast the concrete's adhesion to the formworks, caused by the hydration reaction of the cement in the time between casting and release of the manufacture.

The action of CASSEROIL 400/P additives is due to a specific chemical reaction between the additives and the thin layer of cement paste directly in contact with the formworks, an action which is extended over time as the mix hardens.

The action of CASSEROIL 400/P additives does not end with detachment; they are designed to have a positive impact on the "exposed face" of the manufacture, to reduce dust to a minimum and to inhibit rust on the surface of the formworks.



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Chemical analysis

Chemical tests conducted in authorised laboratories on the raw materials used to make CASSEROIL 400/P demonstrate that the product contains no benzene or other volatile aromatic hydrocarbons, the primary cause of odours and toxic actions in the indoor working environment. CASSEROIL 400/P contains practically no benzo- α -pyrene or other polycyclic aromatic hydrocarbons (PAHs) and absolutely no polychlorinated biphenyls (PCBs).

Working environment

Use of CASSEROIL 400/P involves no toxicological risk for workers, and so only ordinary industrial hygiene procedures are required to protect employees' health.

In addition to these practices, it is recommended that workers wear gloves, which will prevent the degreasing effect on the skin common to all release agents.

Unlike mineral oil based release agents and the many chemical release agents on the market, use of CASSEROIL 400/P does not require a medical examination every six months under Presidential Decree no. 303 dated 19/03/1956.

Typical applications

For formworks of all kinds;
for exposed concrete;
for hot formworks in the presence of steam curing cycles.

Do not use for

"Sculpted" concretes obtained with polyurethane matrixes, which require specific release agents.

Concrete quality and finish

Like all Ruredil release agents, CASSEROIL 400/P is designed to improve the appearance of the concrete surface finish.

Revision 04/2009. The present edition cancels and replaces all the previous ones. The information contained in the present technical data sheet is based on our knowledge and experience and should therefore not be taken as our guarantee. Neither shall we be responsible for the utilisation of the product since the conditions under which it is used are beyond our control

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