

Techno Release R

Chemical Mould Release Agent

Uses

For quick, clean and easy stripping of moulds and formwork
For high quality, fair-faced and stain-free concrete.

Advantages

Ensures easy release, reducing damage and improving efficiency of production.
Minimizes surface blemishes and staining. promoting high quality fair-faced concrete even with white cement Reduces opportunity of damage to formwork, extending usable life. Minimizes cleaning of formwork before re-use. Suitable for use with virtually all types of formwork. Inhibits corrosion of steel formwork

Standards Compliance

Category 5: Chemical release agent (Concrete Society: Notes on formwork release agents and coatings. April 1981).

Description

Techno Release R chemical mould release agent is a specially formulated blend of mineral oils and selected additives. It is supplied as a low viscosity, pale straw colored liquid. On the mould, Techno Release R provides a chemical release action that is superior to that provided by normal oil based release agents (Concrete Society categories 1 to 4). Entrapment of air bubbles at the mould surface is minimized, reducing surface blemishes and substantially reducing remedial costs.

As well improving cast concrete surface, Mast Release also minimises damage to form surfaces. Corrosion on steel moulds is reduced. On all mould the easier release and reduced residue minimize the chance to the mould surface during stripping and cleaning. This extends the life of the surface and reduces the frequency of concrete defects caused by damage to the mould face.

Properties

Specific Gravity 0.81 to 0.84 @ 20 °C

Techno Release R is designed for use on surfaces sealed with Techno Release R Formcote and is suitable for use on limber, both plain and polyurethane coated, steel, GRP and other resinous formwork surfaces.

Instructions for use

Mould preparation

All moulds, new or used, must be cleaned of surface deposits of rust, concrete, oil or other materials. Inadequate cleaning may lead to surface blemishes due to the

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adhering material. The use of M.T.C. Acid Etch and Chemical Degreaser* will assist the cleaning process.

If only limited use of the formwork is envisaged, new timber moulds may be coated directly with Mash Release. If forms are to be regularly re-used then the surface should initially be coated with a suitable polyurethane sealer. This provides increased protection to the timber surface, improves ease of cleaning and prevents the build up of large residual levels of release agent in the timber of the form which may lead, over time, to increased surface dusting or retardation.

Application

Techno Release R can be applied by all normal methods, including brush, sponge and conventional spray. Where suitable, spray application is recommended. Non-absorbent surface requires a single application. New, unsealed, timber surfaces should be re-coated. If delay in use of the mould leads to absorption of the release agent into the timber.

Coverage rate Depending on the porosity and texture of the mould surface, typical coverage rates of 20 to 60 m²/liter will be obtainable.

Best results will be obtained with the thinnest practical coating. Over application should be avoided. Excessive application on flat surfaces or which leads to pooling of release agent in the corners of forms is uneconomic and can lead to surface during or, in worst cases, surface retardation.

After stripping or demoulding after use, the formwork or mould should be brushed or wiped clean of any excess dust prior to re-application of Techno Release R for the next use of the mould. The use of Techno Release R minimizes the amount of time and effort required for this process.

Repair of moulds

If after extended use, mould surface requires re-coating with polyurethane sealer, all residual traces of Mash Release must be removed to ensure complete adhesion. This is best effected by using a strong industrial detergent together with stiff brushing, followed by thorough rinsing with clean water.

Limitations

For application temperature over 60 °C, refer to the M.T.C. Technical Department.

Packaging

Techno Release R is available in 20 liter pails and 210 liter drums.

Storage

Mash Release has minimum shelf life of 12 months when stored in the original unopened containers under normal warehouse conditions.

Precautions

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