



Expanform* WB

Water base chemical mould release agent

Uses

To provide quick, clean and easy stripping of moulds and formworks and ensure high quality, fair faced and stain free concrete surface.

Advantages

- Minimises surface blemishes and staining, promotion high quality fair-faced concrete even with white cement.
- Ensures easy release, reducing damage and improving efficiency of production
- Reduces opportunity of damage of formwork, extending usable life.
- Minimises cleaning of formwork before re-use.
- Suitable for use with virtually all types of formwork, also suitable for rubber, plastic or PVC liners/moulds

Standards compliance

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

Description

Expanform* WB an emulsified blend of mineral oils and non hazardous chemicals is specially formulated to produce release properties which are superior to those of conventional mould oils.

Expanform* WB is supplied as a sprayable white liquid, ready for direct application on site.

The chemically reactive components is Expanform* WB provides a water repellent interface which protects formwork and ensure an even colour and texture in the cast concrete.

In addition to preventing adhesion of concrete to formwork, Expanform* WB will allow air to escape from the interface during concrete placing and vibration. The release of air minimises surface blemishes and blow holes resulting in a substantial reduction in remedial coats.

Technical support

Expanchem Fospak provides a technical advisory service for on-site assistance and advice on admixture selection, evaluation trials and dispensing equipment.

Properties

Specific gravity : Typically 0.995 at 20 °C

Colour : White

Viscosity (Ford cup A4) : 10 secs

Expanform* WB may be used on suitably sealed timber and polyurethane coated, steel, GRP and other resinous formwork surfaces.

Steam curing

Expanform* WB is effective at elevated temperature and can be used for steam curing at 75°C

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 adhering material. The use of a proprietary chemical degreaser or acid cleaning is recommended.

Application

If only limited use of the formwork is envisaged, new timber moulds may be coated directly with Expanform* WB. If forms are regularly re-used 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 buildup of large residual levels of release agent in the timber of the form which may lead, over time to increased surface dusting or retardation.

Expanform* WB can be applied by all normal methods, including brush, sponge and conventional spray. Where suitable, spray application is recommended. Non absorbent surfaces require 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 - 75 m² /liter, will be obtainable from Expanform* WB.

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 releases agent in the corners of forms is uneconomic and can lead to surface dusting or, in worst cases, surface retardation.



CONSTRUCTION CHEMISTRY

After stripping or de-moulding

After use, the formwork or mould should be brushed or wiped clean of any excess dust prior to reapplication of Expanform* WB for the next use of the mould. The use of Expanform* WB minimises the amount of time and effort required for this process.

Repair of moulds

If, after extended use, mould surfaces require repair or re-coating with polyurethane sealer, all residual traces of Expanform* WB must be removed to ensure complete adhesion. This is best affected by using a strong industrial detergent together with stiff brushing, followed by thorough rinsing with clean water.

Estimating

Packing and Coverage

Packing:

Expanform* WB : 30 and 210 liter drums

Coverage:

Expanform* WB : 20 - 75 m² /liter

Storage

Expanform* WB has a minimum shelf life of 12 months provided the temperature is kept below 40 C. Should the temperature of the product fall outside then contact your local Expanchem Fospak office for advice.

Precautions

Health and safety

It should not be swallowed or allowed to come into contact with skin and eyes.

Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately do not induce vomiting.

Fire

Expanform* WB is water base and is therefore non-flammable

Cleaning and disposal

Spillages of Expanform* WB should be absorbed onto sand, earth or vermiculite and transferred to suitable containers.

The disposal of excess or waste material should be carried out in accordance with local legislation under the guidance of the local waste regulatory authority.

* Denotes the trademark registered.

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