



# FORMWORK TREATMENTS

## Concrete Formwork Treatments

### FORMLEASE

#### Concrete Chemical Release Agent (BCA Category 5)

##### Description

A chemical release agent for use on formwork and shuttering which gives superior finish to cast concrete. It is a blend of reactive oils in a partially evaporative rapid drying hydrocarbon carrier. The carrier dries to form a positive barrier coating on the form face. This leaves the reactive materials that subsequently combine with alkalis in the concrete to form soaps at the interface of the formwork barrier coating and the concrete. This double action not only facilitates easy formwork release and first class concrete finish but also maintains a degree of formwork cleanliness beyond that generally obtained by other release agents. The material is WBS listed for use where concrete will be in contact with potable water.

##### Advantages

- Double action provides physical barrier and chemical release properties.
- Facilitates maximum re-usage of all types of formwork.
- Provides uniform stain-free concrete surfaces.
- Minimises incidence of surface air voids.
- Will not impair the bond of any subsequent treatments to concrete.
- Concrete deposits on forms virtually eliminated.
- Dries rapidly on forms to provide cleaner and safer working surfaces.
- Will not be removed by rain showers or foot traffic.
- Inhibits rust formation on steel forms.
- Light spray mist coat application provides extremely economic usage.
- Suitable for use on all types of formwork in all climatic conditions.
- Minimises discoloration of concrete surface

##### Application

After formwork assembly and any necessary sealing of joints with **FORMTAPE**, apply by spray a very light mist coat to achieve coverage of 30-50 m<sup>2</sup> per litre depending upon surface porosity. A suitable sprayer unit is available from **FDI Limited**. For maximum protection of timber and steel forms **FORMLEASE** should be applied immediately after stripping and completion of any necessary cleaning. Timber and other porous formwork materials which have not been treated with **ECOSEAL** Plastic Formwork Coating or other suitable sealer such as **FORMLAC**, should initially be treated with a double coat of **FORMLEASE**, the second coat applied after the first has dried.

As the rate of the chemical reaction which forms the release film is dependant on the rate of hydration of the cement, in cold weather it is advisable not remove the shuttering for at least 24 hours after placing and compacting the concrete.

##### Caution

BCA reports state that excessive application of concrete release agents is detrimental. Care should be taken to ensure that **FORMLEASE** is applied as recommended, as this will give optimum performance and maximum economy.

##### Storage

The material is not affected by frost or ambient heat and the flash point is greater than 37°C. The shelf life of **FORMLEASE** is practically unlimited when stored in the sealed containers.

##### Specification

**FORMLEASE** Concrete Chemical Release Agent manufactured by **Formwork Direct International** Limited shall be applied to formwork surfaces in accordance with the manufacturer's instructions.

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### Health & Safety

Prolonged physical contact with the material should be avoided. Where contact with skin occurs, wash thoroughly with soap and water. If splashes affect eyes, bathe them immediately with copious quantities of clean water and if discomfort persists medical attention should be sought without delay. Please consult the separate **FORMLEASE** Health & Safety Data Sheet.

Full details regarding **FORMTAPE**, **ECOSEAL**, and other **FDI** materials are available on separate data sheets.

**NOTE.** **FORMLEASE** chemical release agent is also available as **FORMLEASE PREMIUM** for use in indoor applications or where ventilation is poor.

### WRAS

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