

Chemlease

Concrete Chemical Release Agent

Description

Chemlease is an internationally accepted formulation giving an optimum of release and concrete finish for all types of formwork. This is achieved by the chemical formation of complex soaps at the concrete interface which is a very different concept to conventional mould oils.

Advantages

- Reproduction of difficult features readily achieved with uniform matt finish.
- Concrete cast against Chemlease requires no further treatment other than a light brushing prior to the application of plasters, adhesives, mortars and surface coatings.
- Drying facility provides a safe working walking surface on soffit shutters without transfer of oil to reinforcement or contamination to concrete surface.
- Metal and timber forms are temporarily protected from the weather.
- Suitable for use with all types of cement under all climatic conditions.
- Incidence of blow holes and surface crazing greatly reduced.
- Excellent rates of spread are easily attained using our specially designed spray equipment resulting in maximum economy on a low unit cost per square metre.
- Chemical release greatly reduces stripping times, minimising cleaning and subsequent damage to formwork.
- Ideal for use in precast or industrial operations where pre-stress or heated systems are involved.
- Chemlease is unaffected by rain and may be applied either immediately before casting or treated forms may be left weeks before concreting.

Technical Information

Composition	Tall oil fatty acids and hydrocarbons.
Viscosity:	10 cps @ 23°C
Flash Point:	47°C (118°F)
S.G. at 20°C:	0.83
Saponification Value:	12.00
Freezing Point:	-30°C
Colour:	Pale Amber
Storage:	Indefinite in unopened drum

Approved by WRAS for use with potable/wholesome water.

Tested in accordance with BS6920:2000.

Average Coverage

	Metre Squared per Litre
Concrete, rough sawn timber, etc.	20-22
Plywood	25-30
Paper Coated Plywood	30-40
Metal, Fibreglass, plastics and plastic coated Plywood.	40-60



Surface Preparation

The form surfaces should be clean and dry prior to the application of Chemlease.

Application Instructions

A thin even film of Chemlease should be applied using appropriate Nufins spray equipment or an absorbent applicator. Excess material in the bottom of the mould should be removed. Unsealed timber requires a double application prior to the first cast.

Recommendation

Chemlease is recommended for use with many types of specialised formwork and concreting systems, i.e. decorative plastics, flexible rubbers and G.R.C. etc. Chemlease is recommended for the vast majority of applications. However it is a flammable liquid and solvent vapour is given off during drying. Therefore it is not suitable for use in tunnelling or mining construction or in confined areas where ventilation is poor. For these applications Chemlease O.F. should be used. Chemlease O.F. should also be used where expanded polystyrene formers are in use.

Chemlease will provide temporary protection to steel shutters. For long term protection and storage of steel moulds and shutters, Chemshield is recommended.

Packaging

Chemlease is available in 20 litre, 210 litre drums and 1000 litre bulk tanks.

Storage

Chemlease should be stored in cool dry conditions away from direct sunlight, kept out of the reach of children and away from food stuffs.

Health & Safety

Gloves and goggles should be worn when using this product. Accidental splashes on skin should be removed by washing with soap and water.

Contact with the eyes should be avoided and accidental contamination should be washed out and medical attention sought. If swallowed, do not induce vomiting, seek medical aid.

Ensure adequate ventilation, avoiding naked flames or sources of ignition during use as the product is flammable.

Limitations

The stripping of the formwork in less than 12 hours is not recommended unless an accelerated curing system is employed.

Technical Note

Chemlease, when used correctly, does not cause staining. Concrete "staining" can be caused by a number of factors on which our technical department can advise.

Technical Support

Through our technical department and laboratories we can offer a comprehensive service to specifiers and contractors. Technical representatives are available to provide further information and arrange demonstrations.

