

Technical data sheet

CHRYSO® Dem Bio 10

Release agent - Vegetable based,
for conventional jobsites

Description

CHRYSO®Dem Bio 10 is a vegetable based, biodegradable, non-toxic delayed release agent for most types of formwork on conventional jobsites.

Advantages

- Environmentally friendly product that is non-toxic with simple, easy disposal methods.
- Is safe to use, has no odour and can be used in confined spaces (mining, tunnelling and poorly ventilated areas).
- Its non-toxic nature is suitable for water retaining structures.
- Solvent free.
- May be used with white cement (provided the formwork is spotless and clean)
- Easy formwork release - temporarily protects and extends the life of metallic formwork from corrosion
- Ready to use.
- Reduces the likelihood of imperfections and surface damage (particularly blow holes) to the concrete, creating more durable, blemish free and consistent concrete surfaces
- Does not affect the adhesion of subsequent finishes and coatings. Plaster, paint and other coatings may be applied subsequently
- Does not stain or affect the colour of the concrete, when applied correctly
- Does not modify cement hydration when applied correctly
- Water repellent and not affected by rain

Physical and chemical properties

- Physical state (@ 25 °C): liquid
- Colour: Amber
- Specific gravity (@ 25 °C): 0.865 - 0.895
- pH: 5.0 - 6.0
- Viscosity: 10 - 15 secs (Ford # 4 cup)

Application guidelines

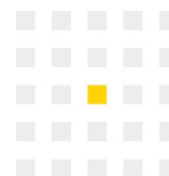
Use

Suitable for all types of formwork including:

- Metal (steel/aluminum)
- Wood (timber/plywood/resin ply/shutter board)
- Plastic
- Polystyrene
- Fibreglass

Directions

- **Before application**
 - The formwork must be stripped and cleaned of hardened concrete residue, dust, dirt, rust, oil deposits and any form of deleterious substance.
 - CHRYSO®Environmentally Friendly Cleaning Agents will facilitate the cleaning process
- CHRYSO®Dem Bio 10 should be applied to the formwork prior to erection of formwork, the fixing of reinforcement and as near as possible to the first concrete pour



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■ After application

- The formwork should be re-coated if casting is scheduled more than 2 days after CHRYSO®Dem Bio 10 has been applied
- In the event of exposure to dust and dirt, the formwork must be stripped and cleaned. CHRYSO®Dem Bio 10 must then be re-applied.
- After the formwork has been used, it should be cleaned and CHRYSO®Dem Bio 10 should be applied immediately to protect it from rust

■ Coverage

- CHRYSO®Dem Bio 10 needs to be applied as thinly as possible to the entire formwork surface, by means of an appropriate pressure spray, paintbrush or roller.
- It is recommended to apply sprayable release agents with a constant pressure sprayer and a then to use a microfibre mop over the entire sprayed area, in order to ensure an even film thickness.
- Metallic/plastic formwork: 45 m²/1 ℓ
- Wooden formwork: 25 - 35 m²/ 1 ℓ

Precautions

- Avoid insufficient or excessive application. Too much is just as bad as too little
- Avoid the accumulation of excessive dust/dirt on the surface of the formwork
- Not suitable for latex & rubber moulds
- This product should not be applied at a temperature lower than 10°C.
- CHRYSO®Dem Bio 10 will thicken in cold temperatures.

Storage

- If in the original sealed packaging, CHRYSO®Dem Bio 10 has a shelf life of up to 6 months from the date of manufacturing
- Avoid storing CHRYSO®Dem Bio 10 in direct sunlight
- In its stored state, CHRYSO®Dem Bio 10 should not come into direct contact with water or rain.
- Should the product freeze, it will recover its properties after thawing and agitating

Packaging

- 25 ℓ jerry can
- 200 ℓ drum
- 1000 ℓ flow bin
- Delivery on request

Health and safety

- CHRYSO®Dem Bio 10 is classified as combustible.
- CHRYSO will provide onsite assistance when requested.
- For more information refer to the material safety data sheet.