

## 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 all 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

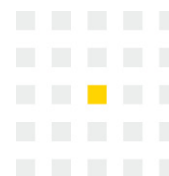
Suitable for all types of formwork including:

- 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
- Metallic/plastic formwork: 45 m<sup>2</sup>/1 ℓ
- Wooden formwork: 25 – 35 m<sup>2</sup>/ 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
- 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

### **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.