

# SHUTTEROL RAS

## TECHNICAL DATA SHEET

### HIGH PERFORMANCE SOLVENT BASED, READY-TO-USE, FORM-RELEASE AGENT

#### Description

SHUTTEROL RAS is specially formulated blend of mineral oils and chemicals having release properties which are superior to those of a conventional mould oil. The chemicals react with the alkali in the concrete to form a thin water repellent skin on the surface of the mould, thereby enabling easy stripping from concrete and acting as a protection to steel and wooden formwork.

SHUTTEROL RAS is supplied as a pale straw coloured liquid ready for direct application and use.

#### Uses

SHUTTEROL RAS has been specially formulated to provide critical barrier between mould and cementitious media facilitating easy separation without stains and a significantly improved quality of the concrete surface which is smooth, homogeneous and free of pin-holes.

#### Advantages

- Water-resistant chemical barrier - Ensures fast, clean stripping of forms
- No residue transfer - Stain-free & less voids
- Does not harm concrete - compatible
- Can be used on all types of formworks
- Minimizes cleaning of shutters before re-use
- Reduces opportunity of damage to formwork, extending usable life.
- Suitable for use with steam cured concrete.
- Ready to use
- Environmentally friendly - Non-hazardous, having flash point >160°C
- Extends usage period of the form.
- Reduces corrosion risk on the form.
- Eliminates environment and health risks

#### Characteristics

- Form : Liquid
- Composition : Blend of release agents in hydrocarbon carrier
- Relative density :  $0.88 \pm 0.03$  at 25°C
- Chloride content : Nil (as per BS 5075 part I)
- Freezing point : -10°C
- Flashpoint : >160°C

#### Directions for use

Apply before the first casting and thereafter re-apply immediately after stripping and cleaning the mould. Lightweight horticultural sprayers (knapsack type) are ideal as SHUTTEROL RAS is finely atomized to give a uniform coating.

Excessive application should be avoided.

Alternatively, application may be made by a fine haired brush, only a very thin coating should be made and any excess removed.

If after the first application, the SHUTTEROL RAS is completely absorbed into new timber or plywood, a further application should be made before filling the moulds or formwork.

Coat forms liberally before storing to keep rust free. To return forms to service, sweep down and recoat with SHUTTEROL RAS.

#### Packaging

SHUTTEROL RAS is supplied in 200 litre drums, 20 litre and 5 litre containers.

#### Coverage

A coverage between 20 to 60m<sup>2</sup> per litre is possible depending upon the porosity and texture of mould surface.

#### Storage and Shelf life

SHUTTEROL RAS must be stored where temperatures do not drop below +5°C. Store under cover, out of direct sunlight and protect from extremes of temperature.

Shelf life is 12 months when stored as above.

#### Safety precautions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item. For further information refer to the material safety data sheet. MSDS available on demand or on FIRSTCHOICE SPECIALITY CHEMICALS web site.

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### Note

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### FIRST CHOICE SPECIALITY CHEMICALS PRIVATE LIMITED

#### Factory Address :

**Ahmedabad-**  
Moraiya, Changodar, Bavla Highway, PS: Changodar, District-  
Ahmedabad, Gujarat, PIN- 382213.  
**Singur-**  
Shyam Business Park, Durgapur Express way, Dist - Singur, West  
Bengal, Pin - 712306  
[www.fcsc.co.in](http://www.fcsc.co.in)  
Helpline no : 3335000230

#### Office Address :

"SHRACHI TOWERS"  
3<sup>rd</sup> Floor, 686, Anandpur, E. M. Bypass,  
Kolkata - 700 107.  
[www.fcsc.co.in](http://www.fcsc.co.in)  
Helpline no : 3335000230