



# CHRYSO® Deco Lav N

## Negative surface retarders

### Description

**CHRYSO® Deco Lav N** is a range of 10 negative surface retarders solvent based.

**CHRYSO® Deco Lav N** enables to delay the hydration of cement on the concrete surface in contact with the mould. The final cleaning of the concrete thus treated makes the aggregates apparent.

### Characteristics

- ♦ Nature: Viscous liquid
- ♦ Color:
  - ♦ **N01**: blue, **N02**: brown, **N10**: green
  - ♦ **N25**: yellow, **N50**: rose, **N70**: grey,
  - ♦ **N130**: white, **N200**: orange, **N300**: purple
  - ♦ **N400**: purple
- ♦ Flash point: -2° C

### Packaging

Buckets: 20 kgs

### Method of Use

#### Applications

- Negative surface retarding concrete
- Facings made of architectonic concrete
- Concrete claddings for industrial buildings
- Precast sound damping highway walls
- Decorative urban furniture.

#### Directions for use

##### Concrete mix-design:

The concrete should be homogeneous.  
Aggregates should be chosen according to the aesthetic result required.  
A too strong vibration of the mixture will make the bigger aggregates drop to the bottom.

#### Applications

Before the application of **CHRYSO® Deco Lav N**, we recommend the use of **CHRYSO® Lav Prec** which will facilitate the cleaning of moulds and the rotation of manufacture.

**CHRYSO® Deco Lav N** must be carefully homogenized by strong agitation with a whip before application.

**CHRYSO® Deco Lav N** is applied on the inside of the moulds which need to be treated. Therefore, the moulds must be clean (no traces of concrete, grease, or rust). They should then be coated in a regular way, without excess nor lack. The product may be applied using a short bristle roller (which keeps it from running) or with an airless spray gun.

Do not use any release agents, neither before application of **CHRYSO® Deco Lav N** (the moulds must be clean), nor after (inhibition of the retarding reaction). It is thus necessary that coating with **CHRYSO® Deco Lav N** does not leave any lack on the walls to avoid any adherence of the concrete. Be careful when greasing the lips of the moulds whose excesses could run onto **CHRYSO® Deco Lav N** in place.

When using spraying equipment, the best results are obtained with airless material.

Consumption varies according to the methods of application and is on average 10 m<sup>2</sup>/L.

The nozzle must have a minimum diameter of 2 mm and be adjusted according to the desired flow (for a stronger flow, use a larger nozzle). This method enables to deposit the quantities strictly necessary, and is particularly recommended for sandblasted surface effects (**CHRYSO® Deco Lav N01** ou **N02** for example).

The product is applied in a single coat, but when delicate effects are desired (sandblasted for example), one must be very careful when applying **CHRYSO® Deco Lav N**. In this case, two coats of product (the second one correcting the possible imperfections of the first one) should be applied with an airless spray gun.

**CHRYSO® Deco Lav N** was especially developed for the precast moulds: it does not run, neither on vertical walls, nor on sloping surfaces.

Any running phenomenon indicates an excess of product. This phenomenon should be avoided so that the product does not remain stuck to the element when demoulding. Should that happen, use a thinner (white spirit or acetone) to eliminate it.



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CHRYSO® Deco Lav N dries then according to atmospheric conditions:

- in summer, (30° C, 50 % of relative humidity) a film resistant to abrasion of fresh concrete will appear in 5 mins.
- in winter (5 to 10° C, 30 % of relative humidity), 30 mins are needed.

Drying can be accelerated by heating the moulds, but it must never be done using a flame, since

CHRYSO® Deco Lav N is a flammable product. When using drying ovens, it will be necessary to avoid the accumulation of vapours: use only properly ventilated drying ovens. After drying, the concrete will be poured in the moulds.

### Washing of concrete elements

The concrete must stay in place between 15 and 24 hours. Concrete elements can be steam cured, avoiding violent temperature shocks and only after trial tests have been done.

After demoulding, the precast element must be washed.

Washing must be carried out with a great regularity (same operator throughout the cycle) to guarantee a good reproducibility of effects. Washing must be done immediately after demoulding and any exposition to sun and wind must be proscribed.

In the case of mass production, wash the elements one after the other right after demoulding and without intermediate storage.

Washing will be carried out with water under pressure (100 bars) by holding the nozzle to approximately 50 cm from the element to be treated.

### Choice of product :

The choice of CHRYSO® Deco Lav N is made using the above detailed colour. Each colour corresponds to a carving strength. Many parameters will influence the depth of carving :

- The type of cement used: CEM I 52,5 or superwhite cements enables to obtain a depth of carving inferior to that of a CEM II type
- The cement dosage: a high cement rate in the mixture lowers the depth of carving.
- The percentage of additions: the quantity of additions (fillers or other fines) contained in the mixture plays a very important role as far as the visual "open or closed grain" effect is concerned.
- The concrete formulation: any water reduction will lower the carving strength. The use of an accelerator or the steam curing of the concrete also have this effect. A mixture having a good consistency gives better results.

Reference	Color	Depth of carving (mm)	Dimension granulats(mm)
CHRYSO®Deco Lav N01	blue	0,5	1,5 à 3
CHRYSO®Deco Lav N02	brown	1	3 à 5
CHRYSO®Deco Lav N10	green	1,5	3 à 5
CHRYSO®Deco Lav N25	yellow	2	5 à 8
CHRYSO®Deco Lav N50	rose	2,5	5 à 8
CHRYSO®Deco Lav N70	grey	3	8 à 12
CHRYSO®Deco Lav N130	white	4	12 à 16
CHRYSO®Deco Lav N200	orange	5	12 à 18
CHRYSO®Deco Lav N300	purple	6	18 à 30
CHRYSO®Deco Lav N400	purple	7	19 à 30

### Precautions

Shelf life: CHRYSO® Deco Lav N can be used up to 12 months after its date of manufacture, provided it is maintained in its sealed packaging. The product must be stored in a well ventilated room.

## SAFETY

CHRYSO® Deco Lav N is a product classified as «irritating». Any contact with the eyes and skin can cause irritation. Whilst handling, it is compulsory to wear normal protective equipment (goggles, gloves and mask).

CHRYSO® Deco Lav N is a product classified as «highly flammable». It must be stored and manipulated away from any source of heat.

CHRYSO® Deco Lav N is a product classified as « dangerous » for the environment.

For further informations, please refer to the safety data sheet on our website [www.chryso-online.com](http://www.chryso-online.com).

*The information contained in this document is given to the best of our knowledge and the results from extensive testing. However, it cannot, under any circumstances be considered as a warranty involving our liability in case of misuse. Tests should be carried out before any use of the product to ensure that the methods and conditions of use of the product are satisfactory. Our specialists are at the disposal of the users in order to help them with any problem encountered.*

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