

CHRYSO®Deco Lav P

Top-surface retarder

Water based



CHRYSO®Deco Lav P is a range of 8 “positive” aqueous surface retarders. The product is operator and environmentally friendly.

CHRYSO®Deco Lav P enables to delay the hydration of cement on the exposed surfaces of concrete. After cleaning the treated surface, the aggregate in the concrete is exposed.

No solvents are used in the formulation of **CHRYSO®Deco Lav P**, making it easier to use: it is not necessary to protect any surrounding area, except for painted façades and porous surfaces. The spraying equipment can be rinsed with water.

Indicative characteristics

- Nature: liquid
- Dynamic viscosity at 20°C (mPa.s) inferior to: 500,0 mPa.s
- Shelf life: 12 months

Reference	Colour	pH
CHRYSO®Deco LavP01	Pink	3.0 ± 1.0
CHRYSO®Deco LavP02	Green	3.0 ± 1.0
CHRYSO®Deco LavP03	Blue	3.0 ± 1.0
CHRYSO®Deco LavP04	Orange	9.0 ± 1.0
CHRYSO®Deco LavP05	Peach	9.0 ± 1.0
CHRYSO®Deco LavP06	Yellow	9.0 ± 1.0
CHRYSO®Deco LavP07	Purple	9.0 ± 1.0
CHRYSO®Deco LavP08	Red	9.0 ± 1.0

Domains of application

- Street furniture
- Exposed aggregate facings
- Exposed aggregate highway barriers
- Exposed aggregate roadworks and slabs

Method of use

Consumption: 4 to 5 m² per litre.

Composition and application of the concrete:

In order to obtain good results, the concrete should be homogeneous. The concrete to be deactivated should be cast and then trowelled, and if necessary vibrated for a short time. Too strong a vibration may expose the finer aggregates by separating the mix.

The cement type and dosage have an impact on the setting time of concrete. Using quick setting cement or high cement dosage in the concrete formulation will reduce the depth of exposure (see tests). Be aware that inert fillers affect the final aesthetic aspect of the surface (“open” or “closed” aspect).

We recommend the use of FIBRIN 23D monofilament synthetic fibres to increase the cohesion of the concrete to be deactivated and therefore ease its casting. The use of the superplasticizer CHRYSO®Fluid Optima 100 will allow better comfort of use for important surfaces (and give a homogeneous aspect in the end even in case of delivery problems and following mixing trucks).

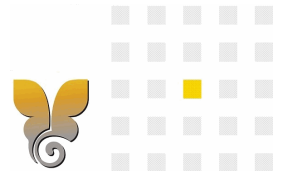
Before starting any jobsite, we recommend that some tests be carried out before applying on the whole surface: spray **CHRYSO®Deco Lav P** on the surfaces near the fresh concrete (i.e. small painted pots, wall coatings, stones, etc...) in order to make sure that the surface retarder does not dirt the elements.

Wait until bleeding water has disappeared (approximately 30 min after casting the concrete). Agitate the product to ensure it is homogeneous. Spray the product evenly using a 0.79 mm diameter nozzle at 2/4 bars.

Yet, should there be watering down 2 or 3 hours after casting, the result would still be

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satisfactory.

Exposing the aggregate:

Concrete should be pressure washed with water at a pressure of 100 to 150 bars. The operator will make sure he maintains the nozzle 20 to 40 cm away from the concrete surface. The spray should make a 45° angle with the concrete to be deactivated.

Cleaning should happen between 4 to 24 hours after application. Should the product be exposed to strong wind and sun and/or in case of concrete with low W/C ratio (i.e. highway crash barriers), with a temperature below 35° C, this operation should be conducted in between 4 to 12 hours. Above 35° C, the concrete should be washed away between 4 to 8 hours.

Choice of the product :

The depth of exposure depends on the aggregate size, and should be less or equal to 1/3 of the largest aggregate size. The choice of the appropriate **CHRYSO®Deco Lav P** reference to use for a given result depends on many parameters (cement dosage, type of cement, Water/Cement ratio, handiness and climatic conditions, ...).

CHRYSO has conducted many tests to establish which **CHRYSO®Deco Lav P** reference is appropriate. However some tests should be carried out on site in order to establish the correct product performance.

Tests

The table below gives indicative information regarding the depth of exposure to be used according to the size of the aggregates. On-site tests under actual conditions will be

necessary to define the exact depth of exposure needed (which depends on the dosage and the type of cement, the outside temperature, and other factors).

References	Color	Depth of carving (mm)	Aggregates size (mm)
CHRYSO®Deco Lav P01	Pink	Acid	-
CHRYSO®Deco Lav P02	Green	About 1	3 to 5
CHRYSO®Deco Lav P03	Blue	About 2	5 to 8
CHRYSO®Deco Lav P04	Orange	About 3	8 to 10
CHRYSO®Deco Lav P05	Peach	About 4	10 to 14
CHRYSO®Deco Lav P06	Yellow	About 5	14 to 18
CHRYSO®Deco Lav P07	Purple	About 6	18 to 25
CHRYSO®Deco Lav P08	Red	About 7	20 to 30

Construction sites references

Tamarins road, Reunion island: many works structures along the road.

Cordeliers Area in Bayonne, France: road architectonic surface-retarded concrete.

Nantes Tramway, France: surface retarded concrete.

Le Mans Tramway, France: surface retarded concrete.

Safety

This product is classified as "harmless". In case of exposure, it is recommended to wear your protective equipment.

Before use, refer to the safety data sheet on our internet site www.chryso.com