TECHNICAL DATA SHEET

Chryso
Decorative
Concrete

17/10/2024

CHRYSO®Deco Lav P100

Top-surface retarder
Water based

DESCRIPTION

CHRYSO®Deco Lav P is a range of 9 "positive" aqueous surface retarders.
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.

BENEFITS

CHRYSO®Deco Lav P range allows the realization of a wide range of exposed aggregate concrete, from micro-etch concrete to deep etch concrete.
It helps to simplify the jobsite's organization.

FIELDS OF APPLICATION

- Stamped concrete
- Exposed aggregate facings
- Exposed aggregate roadworks and slabs
- Street furniture

PACKAGING

- 210 L drum
- IBC 1000L

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INDICATIVE INFORMATION

Product Nature	liquid
Color	According to colour chart
Lifetime	12 months
pH	3,00 ± 1,00
Dynamic viscosity (20°C)	500 mPs.s ± 0,00

METHOD OF USE

JOBSITE PREPARATION AND IMPLEMENTATION:

- Do not hesitate to humidify the form before pouring the concrete.
- It is recommended to protect the jobsites' surroundings (see complementary products' section).

Mix design and application of concrete:

To obtain good results, a good concrete homogeneity is essential. Exposed aggregate concrete surface will be smoothed troweled. The use of quick-setting cement and or high cement content mix may reduce the depth of exposure of the aggregates. Moreover inert fillers quantity affects the final aesthetic aspect of the surface ("open" or "closed" aspect).

Complementary products:

CHRYSO offers complementary products developed to work in synergy with **CHRYSO®Deco Lav P** and contribute to improve the properties and durability of exposed aggregate concrete.

- To protect jobsite and ease the cleaning of the surroundings once concrete has hardened, the use of CHRYSO®Deco Film is recommended after substrate humidification. For some very porous susbtrates, it can be necessary to use a plastic film to achieve protection of the surroundings. A trial test should be carried out on site before application.
- The use of monofilament synthetic micro-fiber CHRYSO ®Fibre MTec 12 (or similar) is recommended to increase the cohesion of the concrete to be surface retarded and to therefore ease its casting. CHRYSO®Fibre MTec 12 limit early concrete shrinkage and cracks, improving durability of the exposed aggregate concrete.
- The use of CHRYSO®Optima 100 gives a room to manoeuvre for big surfaces (the final aesthetic aspect is homogeneous even in case of delivery time hazards and of successive trucks).
- It is important to protect exposed aggregate concrete to ensure better durability. CHRYSO recommends the use of protection products CHRYSO®FiniSol or CHRYSO®RocaSol.

Product application:

- If bleed water rises to the surface, wait until disappearance before applying **CHRYSO®Deco Lav P**.
- Stir the product before use. Apply a uniform coat by spraying (Spray System nozzle TX 10 or TX 18, 2/4 bar pressure).

Concrete removal:

The retarded cement matrix is usually washed out using high-

PRECAUTIONS

- Protect from frost.
- Should the product freeze, it will recover its properties. After thawing, an efficient agitation is necessary until the product is entirely homogeneous again.
- Store in dry ventilated conditions. Protect from heat.

SAFETY

Prior to any use, please read carefully the Material Safety Data Sheets.

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pressure water (100-150 bars). The nozzle must be maintained at 20-40 cm away from the concrete surface. The spray should make a 45° angle.
Washing window: between 4 and 24h after application according to concrete surface resistance, jobsite organization and climatic conditions. In case of severe weather (severe heat, strong winds), it is necessary to adapt the washing window.

Implementation :

The table gives indicative information regarding the finish aspect according to the size of the aggregates. The selection of the proper grade to obtain the desired depth of etches depends on several parameters: cement dosage and type, w/c, workability, aggregates types, climatic conditions (temperatures, wind), concrete plasticity, jobsites organization etc..
Some tests should always be carried out on site to determine the most suitable grade and obtain the desired result.

Reference	Aggregates Size (mm)	Depth of Carving (mm)
CHRYSO®Deco Lav P100	-	Micro-etch
CHRYSO®Deco Lav P01	0.5 - 3	Light-etch
CHRYSO®Deco Lav P02	1 - 5	Light-etch
CHRYSO®Deco Lav P03	3 - 8	Medium-etch
CHRYSO®Deco Lav P04	5 12	Medium-etch
CHRYSO®Deco Lav P05	8 - 14	Medium-etch
CHRYSO®Deco Lav P06	12 - 18	Medium-etch
CHRYSO®Deco Lav P07	14 - 25	Deep-etch
CHRYSO®Deco Lav P08	> 18	Deep-etch

Consumption :

- 1 liter for 4 to 5 m² on average.

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