



Tecnica 64 LS

Description

Water based, VOC free, lithium silicate liquid hardener and densifier that impregnates new or existing concrete surfaces and provides dust free finish.

Fields of Application

- Used indoors and outdoors,
- On old /new concrete and cement based surfaces,
- On floors of industrial plants where no dusting is desired,
- Hangar and workshops,
- Garages and parking lots,
- Warehouses,
- Areas subject to rubber wheel vehicle traffic.

Properties

- Thanks to its high lithium content, it reacts with the lime in the structure of the concrete and makes the surface chemically and mechanically more resistant.
- Gives a glossy appearance on the surface by mechanical means of polishing.
- Densifies, seals and dust proofs concrete surfaces.
- Prevents efflorescence.
- Prevents wear caused by mechanical load.
- Places can be opened to traffic 4-6 hours after the application.

Application Instructions

Surface Quality

- The concrete slabs to be treated must be of a minimum C25 (25 N/mm²) class.

On New Concrete

- Tecnica 64 LS applications on new concrete do not require surface preparation. If there is curing material on the surface, it must be completely removed before application.
- Wait until the carrier concrete becomes cured at a level that allows walking on it and the application must be started immediately after the joints are cut. If there is dirt, residue or ponding on the surface, it must be removed.
- The concrete to be applied should be cured for at least 7 days.

On Old Concrete

- The surface where Tecnica 64 LS will be applied must be free of all dirt and debris that will prevent penetration of the product and it must be ensured that the surface is intact.

Application Method

- Tecnica 64 LS should be applied on the surface by using a low pressure spraying machine in a manner that it covers the entire surface. Where necessary, it should be distributed on the surface by using a thin bristle brush, microfibre mop or a rubber trowel.
- Tecnica 64 LS should be poured on the surface and spread evenly where no spraying machine is used. It should be ensured that there is no ponding of the product during application.
- While the consumption is about 80-150 ml/m² on new concrete, it can be around 100-200 ml/m² on old concrete.
- It must be ensured that during the Tecnica 64 LS application, the surface is completely soaked with Tecnica 64 LS during the first 20-30 minutes. If the concrete floor dries completely by absorbing the product in a shorter time, it should be applied for the second time.
- At the end of the period when the surface is kept wet, excess fluid must be removed manually or by suitable mechanical means. Otherwise, the white residue left by the drying product can only be removed through mechanical methods.
- Surface impregnated with Tecnica 64 LS is ready for use and polishing after 4-6 hours. Full cure occurs after 7 days.
- After drying, the surface can be polished with a polishing machine in each direction using 200-3000 grit resin-bound diamond polishing pads depending on the desired level of gloss.
- If the polishing process is not performed, the gloss may be obtained in 60-90 days.



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Post-Application Protection & Suggestions

- Application should not be done in environments with excessive air flow.
- If polishing is carried out after application, damage and dents on the floor must be repaired with suitable products before application and protrusions must be smoothed by mechanical methods.
- Local variations in compounds of the substrate such as water and cement in concrete formula may cause slight color differences.
- It is normal to observe color differences during drying.
- Proper timing and polishing techniques must be used.
- Ambient and floor temperature should be between 5-35°C during application.
- High temperature increases the application speed, low temperature decreases the application time and speed.
- Efflorescence may occur on the surface under conditions where relative humidity is below 40%.
- Sweating, slow curing and hardening may occur under conditions where ambient relative humidity is over 80%.
- The surfaces on which the product splashes unintentionally during application should be rinsed off immediately.
- Shelf life information is valid when the product is stored in an unopened packaging and under appropriate storage conditions.
- Tools and equipment used should be cleaned with water after the application. Dried residues can be cleaned by using mechanical means.
- The application surface should not be cleaned with acidic (pH <7.0) cleaning agents afterwards.
- Refer to the Safety Data Sheet for further information.

Storage

- Packages should be kept dry and cool at between +5°C and +35°C in moisture free conditions. Avoid direct sunlight.
- Packages should be protected from water, frost and adverse weather conditions.
- Shelf life is maximum 24 months conditional to complying with the above mentioned storage conditions.

Packaging

- 30 L plastic drum.

Technical Properties

(at 23°C and 50%RH)

Appearance	Transparent liquid
Shelf Life	24 months in unopened package in dry environment
Density	1.13 g/ cm ³
Drying Time	4-6 hours
Consumption	80-100 ml/m ² (new concrete) 100-200 ml/m ² (old concrete)
Temperature of the Application Surface	(+5°C) – (35 °C)
Solid Content Ratio	17%
Abrasion Resistance	< 3 cm ³ /50 cm ²