



Protect Glass Shower Cabins from Limescale with Nasiol C Series

Nasiol C series are hydrophobic and oleophobic transparent coatings that were specially developed for glass and ceramic surfaces. They provide easy-to-clean and stain-free effects to the applied surfaces.

Thanks to their chemical, UV and abrasion resistance, they will stay on the shower cabins' surface for a long time.

The fact that it can be applied during production or after installation is just one of the advantages it provides. Another advantage is that it helps manufacturers reduce energy costs, as high temperatures are not required for curing.

Other than shower cabin's glass surfaces, Nasiol C series also can be used for building facades, vehicle windows, interior glass surfaces, furnitures, white goods, solar panels, glass/ceramic surfaces in manufacturing facilities, ceramic tiles, wet areas, electronic device components such as lenses of the cameras, etc.

Preparing the glass surfaces of shower cabins for the coating application

- Surfaces should be dry and free of any dust, oil, grease and other contamination.
- Nasiol Clean which is an alcohol-based surface cleaner can be used for this purpose. It is applied via spraying+buffing.
- If application will be made right after the production, blowing air to remove the dust from the surface will be enough. If it won't be made right after the production, industrial surface cleaning baths can be used.

Instructions for manual application

- Spray the the product onto a 0.5 m² area in an essential amount. Triggered bottles can be used for this purpose.
- Buff the surface immediately with circular movements with a dry cotton cloth before the coating dries by itself on the surface.

Instructions for high pressure spray application

- HVLP spray guns with 0.8 mm nozzle diameter are recommended to be used.
- Spraying pressure can be chosen between 5-6 bars.
- Spraying distance can be chosen between 25-35 cm.
- Spray the product onto the surface in an essential amount.

The product should be sprayed with a fine atomization. The surface should look clear after the application. There shouldn't be any haze/marks on the surface.

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If you had a wet looking surface after the application and because of that saw dots/marks on the surface, you can;

- Decrease the flow rate,
- Increase the spraying distance,
- Increase the spraying pressure,
- Expand the pattern.

If you couldn't apply enough amount and couldn't obtain a good repellency, you can;

- Increase the flow rate,
- Decrease the spraying distance,
- Decrease the spraying pressure,
- Narrow down the pattern.

Curing at room temperature

Under normal conditions, the coating completely cures in 24h at 23°C - 50% RH.

Dry to touch time is 3h at 23°C - 50% RH. It means 3h after the application, the coated surface can be handled. To obtain the best performance, we recommend keeping the coated surface away from water and other contamination during the curing period.

Curing via heat treatment

Curing process can be accelerated via heat treatments. 30 minutes at 100°C is enough for fully curing. Even if the curing is accelerated via heat treatments, we recommend waiting for a day before performing harsh tests on the coated surface.

Storage

To achieve a high quality of coating, keep the containers tightly closed in a dry, well-ventilated space away from heat and ignition sources, stored at -3°C to +30°C. The shelf life of product is 24 months from the date of production when stored in the unopened container under suggested storage conditions. After opening the container, it is recommended to use up the product within 1 month.



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Specifications for tempered shower cabin glass

	C	C1
Packaging*	1-5-30 L	1-5-30 L
Appearance	Colorless Liquid	Colorless Liquid
Chemical Resistance	13>pH>1	12>pH>1
Saltwater Resistance	Yes	Yes
Moisture Resistance	Yes	Yes
Dry Film Thickness	75-100 nm	75-100 nm
Consumption per Unit Area	5 mL/m ²	5 mL/m ²
Density @23°C	0.81 g/cm ³	0.80 g/cm ³
pH Value	2	2
Transparency	99%	99%
Light Refractive Index	1.625 (Glass)	1.625 (Glass)
Application Temperature	5°C-30°C (≤50% RH)	5°C-30°C (≤50% RH)
Temperature Durability	275°C	275°C
Water Contact Angle	106° @10 µL	102° @10 µL
Water Contact Angle After “3000” Wet Scrub (ISO-11998:2006)	100° @10 µL	96° @10 µL
Water Sliding Angle	15° @20 µL	28° @20 µL
Oil Contact Angle	84° @10 µL	72° @10 µL
Dry-to-Touch Time	3 h	3h
REACH Compliance	Yes	Yes
Durability	2 Years	1 Year