

Nano EcoLine Glas Premium



Glass and Ceramic Coatings, recommended for all kinds of glass

KEY FEATURES

Application Temperature	Coverage Rate per Litre	Durability of the Coating	Shelf Life of the Liquid	Storage Temperature	Curing Time
Nano EcoLine Glas Premium: -25 to +35°C (also in sunlight)	150 - 200 m ²	Outside under German weather conditions Nano EcoLine Glas Premium: 3-5 years	2 years	-10 to +30°C	12 hours at 20°C (surface usable after one hour)

PROPERTIES

- Clear, colourless liquid, virtually undetectable, surfaces look and feel the same after application but they may look slightly brighter.
- Easy to apply and re apply
- Resistant against frost and extreme heat or UV exposure, to salt, hard water minerals, seawater, salty air, domestic acid and alkali solutions e.g. within the range pH 2-12
- Anti-soiling, water and dirt-repellent
- Helps to prevent water marks, dirt, algae and bird fouling from adhering to glass
- No scraping, scrubbing or harsh chemical cleaners needed as soiling agents do not bond to the coated surface
- Protects windows from irreparable corrosion, abrasion and "salt burn in"
- Easy to clean effect, treated surfaces remain clean for prolonged periods, this reduces cleaning time and the costs for cleaning and care
- Drastically reduces cleaning frequencies, saving energy, time and cost
- Self-cleaning glass effect on vertical surfaces after heavy rain
- Reduces the growth of micro-organisms and bacteria
- Enhanced hygiene due to biostatic characteristics
- Will considerably reduce surface friction
- Long durability
- Contact angle approx. 104°C
- Heat resistance: 450°C short-term (seconds), 250°C long-term (hours)
- PH-value stable: 1-12,5
- Layer thickness 60 - 150 nm
- Inorganic
- Nano EcoLine Glas Premium TÜV tested on windscreens

Purchased from local supplier:

- Ethanol (EtOH): 99% or higher 19.3 litres
- Hydrochloric acid 37% (HCl): CAS No.: 7647-01-0: 40 g

ALGT® glass & ceramic is ideal for use on glass and ceramic surfaces in environments such as

- Buildings e.g. glass facades/entrance doors
- Float glass
- Treatment of automotive glass (massively improves visibility in rainy conditions), durability: Nano EcoLine Glas Premium: up to 6 months, Nano EcoLine Glas Premium: up to 12 months.
- Treatment of solar/photo-voltaic plants (higher efficiency)
- Anti-soiling coatings of ceramic and enamel conservatories
- Sanitary ware (shower screens, splash-backs, mirrors, basins, toilet)
- Glazed ceramic tiles
- Ceramic bathtubs, showers, sinks, swimming pools
- Windows, sliding doors, skylights, louvre windows balustrades kitchens

QUALITY STANDARDS

Test	Description
ISO 11507	Artificial weathering with fluorescent UV lamps + water (method A)
DIN 55620-1+2	Determination the contact angle
DIN EN ISO 11998:2008	Determination of the wet-scrub resistance and cleanability of coatings
TÜV	Test on windscreens: 1) Perl effect from 40 km/h 2) Easy-to-apply 3) streak-free
DIN 1249 part 12, DIN 18516, part 4, DIN EN 12150	Test Flexural Strength on Safety Glass
CCM lab	Contact angle
TÜV	Pencil + scratch hardness, hydrophobic effect, contact angle