

# No. 2001 Instructions for utilization and cleaning of the glasses that feature an optical interference coating

AMIRAN®, CONTURAN®, DARO, MIROGARD®, MIRONA®, NARIMA®

## General

SCHOTT Products are glass products with specially designed sol-gel coatings applied on glass to reduce reflections or to realize design effects. The specially designed coating requires special treatment and care in comparison to uncoated glass.

## Cleaning

To preserve the attractive look of your coated glass, SCHOTT AMIRAN®, CONTURAN®, DARO, MIROGARD®, MIRONA®, NARIMA® (hereinafter collectively referred to as "SCHOTT Products"), you must clean it on a regular basis just like any other type of glazing. How often it needs to be cleaned depends on the location and how dirty it is. Even under the best environmental conditions, SCHOTT Products must be cleaned at least twice a year in accordance with these instructions. Any cleaning should be documented.

## Appropriate cleaning measures

Normal dirt must be removed using the usual wet cleaning processes. Here, you will need water, a sponge, a cloth, a wiper or chamois leather. When doing so, only neutral wetting agents (see table) that do not contain any abrasive additives should be added to the water. Any non-conformity with these instruction can cause to damages which will not justify for any complaint.

Stubborn residues (e.g. color or adhesive residues, tar splashes, etc.) must be removed using suitable solvents (see table). Before cleaning the glass, please take care of the compatibility of the cleaner and the sealing! Here, you should make sure that the sealing materials of the glazing are not damaged.

## Suitable cleaning products

### Clean tools such as:

- Cloths
- Chamois leather
- Sponges
- Wipers
- Plenty of water (demineralized or city water)

### With normal soiling:

- Water (demineralized or city water)
- Cleaners that contain surfactants such as Alklar (ECOLAB), Pril (HENKEL), Cif® Professional (Diversey)
- Cleaners that contain ammonia such as AJAX glass cleaner (Colgate Palmolive)
- Mild alkaline cleaning agents such as deconex FPD 111 (BORER)

### Solvents:

- Acetone (not to be used with NARIMA®, DARO!)
- Ethanol
- Benzine or cleaning benzine (e.g. Centralin® household benzine)
- Graffiti cleaners that contain solvents (e.g. GRAFFINET® cleaner)



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## Inappropriate cleaning measures

All strong alkaline detergent solutions and acids are unsuitable, especially hydrofluoric acid or cleaning agents that contain fluoride. They attack the anti-reflective glass surfaces and cause irreparable chemical burns. Rough cleaning agents (e.g. abrasives, steel wool, blades, etc.) should not be used either.

## Sticker

Placing any stickers or decorative films on coated glass will cause damage to the glass when the sticker are removed later on. Please note, that any sticker originating from SCHOTT on the SCHOTT Products is not damaging the coating as this is a special type of sticker which does not cause any damage to the glass. An attractively designed interior of your shop should be enough advertising anyway. Do not block people's views by applying large stickers (especially with anti-reflective glasses).

## Marking

If there is a risk that passers-by could walk "through the pane," you should make it identifiable as an obstacle. This can be done by suspending logos directly behind the pane, for example.

## During Installation

Before and during installation, please make sure that the coated glass surfaces are not mechanically damaged. When sealing, e.g. with silicone, avoid smearing it on the glass surface. Remove any possible residues immediately! Please ask your glass supplier or glass manufacturer if the recommended cleaning procedures are not sufficient to clean your glazing. SCHOTT assumes no liability or warranty if these cleaning instructions are not observed.

## Do not use the following for cleaning:

- Strongly alkaline detergent solutions
- Acids, e.g. hydrofluoric acid
- Detergents that contain fluoride

## Rough cleaning agents (strongly abrasive cleaners) such as:

- Abrasive cleaners and cleaning agents that contain abrasive milk
- Steel wool
- Scrubbing sponges
- Blades
- Fabrics with in-woven metal wires
- Pumice powder or comparable polishing agents



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