

# SCHOTT AntiReflective®

## AMIRAN® anti-reflective glass by SCHOTT

### Handling Instructions for Glaziers

No. 2002

#### Recommendations for handling AMIRAN®

AMIRAN® is an anti-reflective glass for glazing display windows and similar areas of application. The coating is a multilayer interference system with metal oxides on both surfaces of float glass. When installing AMIRAN® anti-reflective glass the same technical regulations apply as for uncoated glass, with the proviso that the coated glass is handled with due care.

AMIRAN® is a technical product for architectural glazing. It may show permissible characteristics that do not adversely affect the functionality of the product.

Under certain lighting conditions and from certain viewing angles, slight variations in the residual reflection and possibly also some slight light scatter may be observed. This is caused by the manufacturing process and does not constitute grounds for complaint.

AMIRAN® can be used to produce monolithic and laminated insulating safety glass (using films and resin interlayers respectively) with suitable facilities and following the recommendations laid down in Processing Instructions No. 2003.

#### Design recommendations

AMIRAN® should be protected from the effects of rain running down the face of the building. In the case of concrete and clinker facades, they should be designed in such a way as to ensure that plaster, mortar or concrete leached out of the façade by rainwater does wash over the glass.

**If there is the risk of passers-by attempting to „walk through the glass“ precautions should be taken to make the AMIRAN® visible. This can be done by hanging a company logo or other sign immediately behind the glass.**

#### Installation

Before and during installation precautions should be taken to avoid mechanical damage to the coated surfaces of the glass. During transportation, unloading, storage and glazing all support surfaces, interlayers, suction

lifters and other tools should be kept clean. AMIRAN® should be stored until it is installed in a dry place with acid-free paper as interlayers.

When sealing, e.g. with silicone, the sealant should be kept off the surface of the glass and any residue should be removed immediately. During the construction phase soiling of the glass through splashes of, for example, lime, concrete or cement should be avoided at all costs. These etch the surface of the glass and cause marks which cannot be removed. If splashes of this type should occur in spite of all precautions they should not be allowed to dry or harden under any circumstances and they should be removed at once by washing the glass with copious amounts of water. At the same time care should be taken to ensure that the glass does not suffer any mechanical damage from scratching by grains of grit when wiping the surface with sponges or cloths.

It is advisable not to install AMIRAN® anti-reflective glass until the final stage of the construction phase to avoid damage to the glass resulting from other building work (e.g. plastering). If AMIRAN® is installed during the construction phase, appropriate measures (e.g. protective films, but not adhesive films) should be taken to protect it.

#### Cleaning

To retain the attractive appearance of the anti-reflective display windows the glass must be cleaned regularly. The frequency with which cleaning needs to be carried out depends on the location and the degree of soiling.

Normal soiling can be removed in the ordinary way with water, sponges, cloths and squeegees or wash leathers. For this purpose neutral non-abrasive wetting agents should be added to the water (e.g. Pril, Ajax Glasrein, Sidolin Glasreiniger, methylated spirits or similar).

Stubborn marks, such as paint or tar splashes or adhesive residue, should be removed with suitable solvents, such as methylated spirits, acetone, trichloroethylene, cellulose thinners or benzene. When doing this, precautions

should be taken to avoid damage to the glazing seals.

**It is not advisable to stick highly adhesive stickers or decorative films of any sort on AMIRAN® since damage can occur to the coating when they are subsequently removed.**

If the suggested cleaning procedures do not work, the manufacturer of the glass should be consulted.

#### Unsuitable cleaners

All strongly alkaline caustic solutions as well as acids, especially hydrofluoric acid and cleaners containing fluorides, attack the anti-reflective surface of the glass and cause irreparable damage. Coarse cleaners such as scouring powder, steel wool or materials with coarse metal threads in the weave are unsuitable, as are cleaners containing silicone.

**Do not use scraper blades!** Scraping with steel blades could cause scratches on the coated surface of the glass. In the event of non-observance of these cleaning instructions, the supplier accepts no guarantee or liability.

#### Guarantee

SCHOTT DESAG guarantees that the transparency and the reflection-reducing properties of the coating on AMIRAN® anti-reflective glass will not change under normal conditions. SCHOTT DESAG will replace faulty AMIRAN® glass free of charge provided that it can be demonstrated that Processing Instructions No. 2003, Handling Instructions No. 2002 and Cleaning Instructions No. 2001 have been complied with. This applies to any instance of the glass losing the properties indicated within five years of delivery from the factory and provided that notification of the fault is given without delay. The supply of replacement material does not provide grounds for any new guarantee. No claims can be considered after the five year period indicated above has elapsed. In the case of AMIRAN® insulating glass units and laminated glass with film or resin interlayers the guarantee is the responsibility of the respective processor.

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