

## DATA SHEET GLASS CARE

GLASS CARE / 60 Metallic coating for solar control glass

Data sheet

Glass Care / 60 combines the hydrophobic effects of the Tecnoclean 2002/60 with those of solar control of noble metal nanopowders.

Glass Care is a NON pyrolytic metal coating, to be applied in a simple way, usable on new glass or already installed windows. Glass Care / 60 is permanently catalyzed on the glass thanks to a chemical reaction with the silica contained in the glass itself. The porosity of the glass (not visible to the naked eye) is completely closed and the metal nanopowders contained in it are fixed irreversibly to the glass.

Benefits of Glass Care 60

Glass Care / 60 is a metallic coating that can be classified as a selective coating, which transforms float glass without solar control glass coatings, which reflects infrared and UV rays but lets visible light pass through.

At the same time, a glass treated with Glass Care / 60 has hydrophobic properties, which drastically reduces every point of adhesion to the glass of dirt, deposits of limestone and sodium, responsible for oxidation and opacity.

Features of solar control glass

Some metal coatings decrease the glass heat loss by lowering the  $U_g$  value but also reducing the TL, ie the amount of visible light that passes through the window.

Tests carried out by institutes specializing in the study of glass compare two float glass 4 mm, the first treated with Tecnoclean 2002/60 (water repellent without nanopowders) and the second with Glass Care 60 (water repellent + nanopowders of noble metals). The results clearly indicate the benefits of glass treated with Glass Care compared to a glass not treated with a metallic coating.

- increase in light transmission factor (TL)
- decrease in light reflection factor (RL)
- reduction of solar energy (solar factor) transmitted from outside to inside the room
- very high UV filtering.

The values shown above refer to a single glass. Greater effects will be achieved by assembling treated glass in double glazing or laminated glass.

The glass treated with Glass Care / 60 therefore allows energy savings in winter, preventing the dispersion of heat from inside the house outside, and in summer filtering the infrared rays that contribute to the heating of the room. Also, reducing the transmission of the UV rays, the

phenomenon of discoloration is reduced, that is the alteration of the colors of the objects subjected to solar radiation exposed for example in the windows.

Glass Care / 60 is not a pelliculating product, it is not a resin, it does not contain silicone. Over time all these solutions deteriorate and the glass looks ruined or stained. Glass treated with Glass Care 60 does not change its appearance and does not become yellow over time.

Glass Care / 60 has excellent durability on glass, sometimes even years. The duration is conditioned by a correct initial application (and possibly by a correct preliminary cleaning of the used glass), by the most aggressive atmospheric conditions such as sandy or marine wind, constant irrigation jets, too energetic or abrasive cleaning.

Glass Care is the ideal solution to renovate and protect already installed glass surfaces, especially in areas of high environmental pollution.

Fields of application of Glass Care 60

ONLY for external side and for non-filmed surfaces, not mirrored, unpainted. - buildings with glass facades

- windows, skylights and glass doors
- pensilines, canopies, verandas
- glass parapets
- lets of shops and supermarkets packs

For professional use:

- 5 liter oil (performance: 45/75 square meters / liter spray / buffer)
- 1 liter bottle

Instructions

On new, clean and dry surfaces, it can be applied directly without the need for preliminary treatments and special cleaning. For the used substrates, before the application of the Glass Care / 60 treatment, a deep cleaning with REMOV GEL or other product is necessary to completely remove all the limescale and encrustations present. We recommend SUPERGLASS in the case of a very dirty / encrusted surface.

It is important to remember that some behaviors can compromise the duration:

- the use of caustic detergents or abrasive sponges;
- prolonged stay in contact with alkaline solutions. Do not affect the efficiency of the treatment instead:
  - detergents, disinfectants, dyes, acids.

The treatment can be repeated without contraindications to the first signs of abrasion; overlapping treatments do not increase its efficiency or duration.

Performance: spray: 40-45 sqm buffer: 65-75 sqm. 125 ml bottle, buffer: 7-9 sqm

#### WARNINGS

THE PRODUCT MUST BE KEPT OUT OF THE REACH OF CHILDREN

AND MUST BE USED EXCLUSIVELY WITH GLOVES, GLASSES AND IN ARRANGED LOCAL, AVOIDING DIRECT INHALATION.

ARRIVED, AVOIDING DIRECT INHALATION.

ATTENTION TO THE PRODUCT SAFETY DATA SHEET.

DO NOT USE ON CHROMATORES, ALUMINUMS AND PLASTICS AS WELL AFTER THE APPEARANCE. IN DOMESTIC ENVIRONMENTS KEEP THE AREA WELL-AREA TO AVOID ACCUMULATION OF HARMFUL VAPORS FOR HEALTH AND CHROMED ACCESSORIES.

#### INSTRUCTIONS FOR USE

Shake the product before use.

The product must NOT be diluted with other substances or water.

Do the job in a well-ventilated area.

Not recommended for application on sun-heated windows, in summer or at central times of the day.

The glass that is too hot accelerates the evaporation of the product that does not catalyze correctly.

Do not put the product when it is still in a liquid state in contact with ferrous materials because it rusts them

Glass Care / 60 treatment on new surfaces:

1. Apply the product abundantly and evenly on the perfectly clean and dry surface using a cotton wool pad (or cotton wool), soaked with the product Glass Care / 60, or sprayed.

If the metal or plastic of the frame profiles is wet, immediately remove them with a stain that may stain or damage the surfaces.

It is very important to apply an abundant quantity of product on the glass and spread it evenly. The glass must be visibly wet with the product

If the product is too little, the right reaction does not take place:

only an abundant amount applied, manages to close the roughness of the glass that are the cause of the adhesion of limestone, salts, bacteria.

2. Allow to dry for about 30-40 minutes until the surface is dry, if the environment is humid it needs more time.

3. Remove the remnants of the treatment that are excess in the glass with a dry cotton cloth and with circular movements.

At this stage of the treatment do not use water

4. Wait for min. 3 hours or more, ie until the definitive end of the catalyst process, then wash the treated surface with water with the addition of a little neutral detergent.

5. Finally dry the treated surface.

Water does not flow well, the reasons are:

- the glass was not perfectly clean before treatment

- given with too much dry cotton pad, the applied liquid was not enough: redo the treatment according to the instructions for use above

- in most cases the treated surface has not been well rinsed - the residue of the excess product stops the drops from falling: proceed with a further washing with water and dish detergent.

Information for the industrial application:

The treatment can be used by spraying (nozzle 0,8 / 0,9), but it is also advisable to pass the swab onto the already sprayed glass of product. This is to increase adhesion if the glass had before the treatment of the obvious handprints or greasy halos.

- In the industrial production line it is possible to accelerate the catalysing of the treatment with permanence in ventilated oven at 45/50 ° C for 1 - 3 minutes (depending on environmental factors such as humidity).

- after treatment, with a dry surface and finished catalysis, the treated glass can be washed quietly in the washing machine.

Treatment for tampon application and cleaning: estimated time: 2 square meters every 5 min.

Glass Care / 60 treatment on used surfaces:

Before starting the treatment it is essential to perfectly remove the limestone deposits and other residues present on the surfaces, using an anti-scale product or REMOV GEL. In the case of very resistant dirt, we recommend SUPERGLASS.

The application on traces of limestone, oxidation and encrustation, makes the treatment useless! After removing all deposits as far as possible, dry and proceed with the application of Glass Care / 60 following the instructions given above for the treatment of new surfaces.

Duration:

- about 2 years on windows with buildings in areas with standard pollution

- The life of the treatment can be increased according to a correct application and a correct maintenance (non aggressive cleaning, restoration treatment on the most critical areas (or more subject to pollution / irrigation / horizontal surfaces for example)

