

KORING 972-2 GREEN*Hydrophobic Agent for Stressed Surface Treatments***Purpose:**

KORING 972-2 GREEN is an aqueous agent for water-repellent (hydrophobic) surface treatment, especially for non-absorbent materials that are mechanically stressed. It can also be used on absorbent materials, but in this case it is absolutely necessary to apply it in a minimum amount. It is used where it is necessary to achieve that impurities do not stick to the treated surface and water drips well. At the same time, where it is necessary that there is no optical change in the treated surface. That is, to make the surface finish "invisible".

In particular, these are glasses that are exposed to mechanical stresses such as abrasion. The surface finish created with KORING 972-2 GREEN is tens of nanometres thick. For its effectiveness, the thinner the layer, the more effective it is and the longer it lasts, but it needs to be even, without "spots" and untreated areas.

Application:

Before application, it is necessary to degrease the surface to be treated thoroughly, otherwise, due to the water composition of the product, the necessary wetting of the surface may not occur. Also, some previous surface treatments may block wetting of the surface or reduce the effectiveness and durability of the surface treatment.

To wash the surface thoroughly, the following procedure is recommended. Wash the surface to be treated (especially glass) thoroughly with KORING 752-3 cleaner and degreaser. Afterwards, wash the residual washing liquid off the surface well with clean water. If even trace amounts of previously used surfactants, such as detergents and other cleaning agents, remain on the treated surface, they could reduce the effectiveness of the hydrophobic treatment. Ideally, after washing with clean water, the surface should be given a final wash with a solution of isopropanol in water.

If the surface has been previously treated with fluorocarbon-containing products, e.g. containing Teflon or so-called liquid waxes, it is usually necessary, where excellent optical properties and longevity are required, to first polish the surface with a lapping paste or cream, and then wash thoroughly. These means could cause KORING 972-2 GREEN to fail to bond to the substrate.

KORING 972-2 GREEN can be applied in various ways. It is best to apply the product by spraying with a fine mist, but it must not dry before it settles on the surface! The finer and more even the application, the better. Application with a sponge or roller is less suitable. But these methods are also applicable. KORING 972-2 GREEN can also be applied with an absorbent material (cloth) soaked in the product, but this increases the consumption and reduces the effectiveness of the finish.

When applying, care must be taken to ensure that the surface to be treated is evenly and completely covered, without staining.

After applying the product to the surface, it is advisable to spread the product with a soft material (cloth) to ensure good even coverage. The product should be applied only up to the point where droplets begin to form on the surface. Because it is a water-based product that does not dry too quickly, the drops will soak into the used cloth when spread, resulting in better spreading and better contact between the product and the treated surface.

Once the applied layer of the composition on the surface is partially dry, it is necessary to re-polish with a soft material for the purposes of the "invisible" layer. This is done especially on glass and the surface is polished so that there are no "smudges". This is a relatively easy operation.

Under normal climatic conditions of 5-25°C and relative humidity of 45-65%, the surface treatment is fully cured within 24 hours after application. Higher temperatures do not affect the quality of the surface treatment, but they do increase the drying rate, so the work should be finished faster. Rain can partially wash away fresh (uncured) surface treatment. The curing of the protective layer is faster if it is exposed to sunlight (UV accelerates the reaction).

The thinner the cured protective layer of the product, the more effective it is and at the same time the better its durability. However, it is necessary to make the layer as uniform as possible.

Advantages:

- Water-based agent.
- Wide range of applications.
- The treated surface is without visible change in optical properties.

Warning:

Due to its water and dirt repellent properties, the treated surface is also repellent to coatings. If the surface is to be finished with varnish or paint, treatment with KORING 972-2 GREEN could prevent the varnish or paint from adhering. For example: When treating car windscreens, it is advisable to cover the paint around the glass to prevent the product from being sprayed or otherwise applied on it. Otherwise, there is a risk that if any paint repair is required, the new paint may not adhere to the surface treated with KORING 972-2 GREEN.

Packaging:

The agent is supplied in 10 l, 25 l canisters, 50 l plastic drums, 200 l drums and 1 m³ IBC containers. The agent can also be delivered in a different packaging by arrangement with a customer.

Storage:

Store in plastic containers. Storage temperature 5 – 40°C. Temperatures below 5°C will destroy the product.

Expiration:

12 months in a closed container.