

# ProtecD®

## Application and processing guidelines

Mineralizer F2 Premium  
and  
TF Premium

With a single treatment, ProtecD infiltrates the subsurface and connects definitively and irreversibly with the minerals.

Your objects are **permanently protected** against anything that can penetrate the underground and harm it such as: moisture, salty air, frost, dirt, acids, liquids of all kinds, mushrooms and moss.

The treated surfaces are pressure-resistant and acid-resistant while continuing to breathe. The abrasion is slowed down and paintings last 2 - 3 times longer.

FOR INTERIOR AND EXTERIOR – HORIZONTAL AND VERTICAL

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# **1. Processing of ProtecD Mineralizers F2 and TF Premium**

## **1.1 Basic pre-treatment and preparation for mineralization**

The surface must be free from dust, cement veil, algae or moss. Other pretreatments such as paints, coatings, oil and other contaminants must also have been removed.

***Prior to treatment, it is necessary to check which base material is used: concrete, screed, mortar, clay, bricks, natural or artificial stone, so that you can use the right mineralizer.***

The surface should be cleaned by high-pressure blasting (at least 150 bars) or, if it is only lightly soiled, by a coarse brush, then by a fine broom.

In the event of coarse contamination, use our product **ProtecD DM Algae and Moss Remover** and **ProtecD DK NET Intensive Cleaner**.

Damage to the surface (cracks, holes, gravels, etc.) must be opened and also cleaned or pretreated (please see the next section)

Before applying the mineralizers, the surface must be dry / dull and no puddles must be left.

### **1.1.1 Identify and resolve problems**

ProtecD Mineralizer F2 and TF Premium can repair micro-cracks up to a width of 0.2 mm.

Cracks wider than 0.2 mm, such as gravels etc. must be repaired. They must be enlarged to a width of 10 mm and also deeper than 10 mm and filled with ProtecD Mineral Mortar AKSTOP CH.

When opening, a V-shape must be avoided, since the filling of the "V-tip" with the mortar cannot be fully guaranteed. Also, do not open these parts to be repaired with a cut-off machine so that the open areas / pores are not filled with dust. Remove loose material and also clean as previously described.

Any kind of foreign objects such as nails, dowels, screws, etc. must be removed. Clean then as previously described.

***For a successful mineralization, it is important to examine the substrate to be treated for weak spots and foreign bodies and to clean them up.***

## 1.2. Choosing the right Premium Mineralizer for the application

Before the treatment, check exactly which of the ProtecD Mineralizers the most suitable one for the subsoil is. (See PRODUCTS and TECHNICAL DATA SHEETS)

### 1.1.1 Protection with ProtecD Mineralizer F2 Premium

**ProtecD F2 PREMIUM MINERALIZER** is suitable for all types of concrete and mortar, natural and artificial stone, lime plaster, normal plaster and non-silicone gaskets.

It strengthens concrete, aerated concrete and stone surfaces, is water-repellent and impregnating.

It protects against environmental influences, the abrasion is slowed down and paints last 2 - 3 times longer.

It provides **permanent protection** against moisture and frost damage, prevents the ingress of liquids (water, oil, drinks, etc.) and facilitates the removal of graffiti and chewing gum.

**ProtecD MINERALIZER F2 PREMIUM** can be used indoors and outdoors, on horizontal and vertical surfaces.

### 1.1.2 Protection with ProtecD Mineralizer TF Premium

**ProtecD MINERALIZER TF PREMIUM** is suitable for the treatment of quartz, slate, terracotta, clinker and plaster on walls and facades.

It strengthens the substrate, has a water-repellent and impregnating effect.

It protects against environmental influences, the abrasion is slowed down and paints last 2 - 3 times longer.

It provides **permanent protection** against moisture and frost damage, prevents the ingress of liquids (water, oil, drinks, etc.) and facilitates the removal of graffiti and chewing gum.

**ProtecD MINERALIZER TF PREMIUM** can be used indoors and outdoors, on horizontal and vertical surfaces.

## **1.2 Processing of Mineralizer F2 and TF Premium**

### **1.1.1. Working conditions**

The temperature during the treatment must not be less than 5 °C.

The effect of frost prolongs the crystallization time, but does not harm the effect. For use at temperatures above 35 °C please ask us.

The coating must be protected from rain or running water for 12 hours to avoid rinsing or diluting the active ingredients.

Materials that should not come in contact with the mineralizer and therefore should be protected accordingly are::

- Glass
- Glazed tiles
- Aluminum

If the mineralizer has been accidentally applied to any of these materials, the area should be immediately cleaned with clean water.

### **1.2.2 Recommended tools**

- Water vacuum cleaner
- Plastic film and tape
- Broom (coarse and fine) and dustpan
- Brush
- Towels, paper towels
- Bucket
- Chisel
- Heavy hammer
- Pulverizer / atomizer
- Paint roller

### **1.2.3 Preparation of ProtecD Mineralizer F2 and TF Premium**

**ProtecD Mineralizers F2 and TF** must be well shaken before use. If the treatment lasts longer, they must be mixed again.

Otherwise, the mineralizers are ready to use. Open containers must be used within 3 months.

#### **1.2.4 Consumption data of ProtecD Mineralizer F2 and TF Premium**

The consumption of the Mineralizer F2 and TF Premium is between 1 and 2 l / 10 m<sup>2</sup> in one layer.

In very rare cases (porosity > 20% > Ytong) a second thin layer of 0.1l / m<sup>2</sup> may be applied.

#### **1.2.5 Application of ProtecD Premium Mineralizers**

The products are ready to use after shaking / stirring. They can be applied with a sprayer, brush or roller.

For small areas, it is best to use a soft brush or paint roller.

For large areas we recommend pulverization equipment.

Do not allow to saturate, but only impregnate with Premium Mineraliser.

If puddles remain on the surface after 10 - 20 minutes, remove them with a clean rag or paper towel.

Vertical surfaces must be treated from bottom to top.

## **2. Attention after the application**

### **2.1. Protection during hardening**

Immediately after using ProtecD Mineralizer F2 or TF Premium care should be taken not to spray or clean the treated surfaces with water.

They should therefore be protected from rain.

After 12 hours, however, the connection has progressed and there is no danger.

It is also important to avoid excessive heating so that the surface does not dry too quickly, thus depriving the product of water.

After approx. 40 days, the reaction time is completed. However, this is only necessary for objects in direct contact with pressurized water or for containers with large volumes of liquid.

If you have further questions, call us, contact us via Livechat or write us an email. We are happy to help you. >CONTACT

