

## WORK INSTRUCTION

### LiquiFoil Plus LF03

Revision: 2021.1

#### Product description

A temporary but sustainable, peelable protective film for glass, metals, coated and non-absorbing materials, 1-component, pH-neutral, water-based and ready to use, inert to UV light.

#### Advantages

1. Protects in one treatment, user determines the quality of protection by determining the (variable) layer thickness
2. Prevents damage caused by contamination and scratches during e.g. building process or Transportation and limits the failure costs
3. Environment-friendly, water-based, not flammable, not hazardous, EcoSafe
4. Easy and fast to process with a roller, brush, airless sprayer or HVLP
5. Non-aggressive; does not damage other facade materials
6. Easy to remove, does not stick, does not generate residue
7. Does not rinse or blow off
8. Does not degrade by UV radiation (UV-stable) and fast curing
9. Available in colour (pigmented)

#### Technical properties

Colour	milky to lightgrey
Appearance	fluid (viscous)
Solvent	water
Density	1,0 - 1,1
pH-value	7,5 - 9,5
Usage	4 - 10 m <sup>2</sup> / ltr
Viscosity	200 - 500 mPa.s
Solid content	45 - 50%
Charge	anionic

#### Applicable surfaces

All types of glass (watch out when applying on etched or sand-blasted side)

Also for ceramics, concrete, many types of metal and other coated, non-absorbing surfaces

## Reaction system

Physical drying: evaporation of water  
Fast drying: air movement and temperature increase

## Processing temperature

Between 10°C and 35°C. Do not apply when humidity of over 85%.  
Fast drying is possible with the use of hot air blowers (or an oven). If the temperature is lower, heat the product and the surface. Do not cover with other foil. Never use with a (surface) temperature below 5°C for 24 hours.

## Pre-treatment

Surface must be free of dust, sand and silicons.  
Advice: first test a small area to see if the result meets the expectations.

## Instructions for use

Stir well before use. LiquiFoil must have a sufficient layer thickness for easy removal (minimum 100 micron wet). For long-term protection, apply a 200 micron layer. Apply with roller or airless sprayer. Do not change the product composition. For easy removal, steer away from rubbers or sharp edges, or make sure to have sufficient layer thickness. Be careful using LiquiFoil on soiled, frozen, etched or coated glass. Remove cleaning product residue, cement, glue etc. before applying LiquiFoil. If protecting window frames and rubbers, apply a thicker layer of LiquiFoil. Removal of LiquiFoil can commence after 6 hours. Prevent contact with absorbing materials. Use only in well-ventilated areas. Touchable after maximum 1 hour, completely cured within 24 hours (depending on temperature).

## Processing thickness

<i>Usage</i>	<i>Thickness (wet)</i>	<i>Quality of protection</i>
4 m <sup>2</sup> / ltr.	250 micron	Extreme protection
7 m <sup>2</sup> / ltr.	140 micron	Good, average protection
10 m <sup>2</sup> / ltr.	100 micron	Minimum protection

## Data for airless spraying

Nozzle tip (4)17-(5)21  
Pressure at nozzle 150 bar/2100 psi

## Curing

Touch dry after 2 hours (20°C)  
Fully cured after 24 hours (20°C)

## Removal

Pick up LiquiFoil in a corner and take it from the surface in one piece. Wet LiquiFoil with (warm) water if removal in one piece is not possible. If LiquiFoil sticks on cement residue or other contamination, use more water. Knives, sharp objects or chemical agents are not necessary. After cleaning, remove all LiquiFoil remains from other surfaces such as masonry, stones, tiles, wood, etc. If you have applied too thin a layer that is harder to remove, you may also apply an extra layer, let it dry, and continue with the easy removal.

## Packaging

20 liter buckets/cans

Custom packaging on request

## Storage and shelf life

Shelf life is unopened minimal 24 months

Store frostfree in a dry and cool place

Keep container tightly closed

## Quality and safety regulations

Read safety instructions before use (MSDS). Keep out of reach of children.

The effectiveness of this system is based upon years of practical experience and laboratory research. The manufacturer / supplier guarantees that the quality of the work meets the characteristics that were promised by the manufacturer / supplier, if the provided instructions are adhered to and the work has been executed according to the requirements of skilled workmanship. The manufacturer / supplier is not liable if the final result is affected in a negative way by factors that are uncontrollable. The buyer must check with the regular means available to him if the supplied products are suitable for the intended application.

## Supplier

Gratch International

P.O. Box 7034

5980 AA Panningen

The Netherlands

info@gratch.com

+31 77 465 1095