GLASS DECORATION · WATER-BASED ACRYLIC

Frosted Glass Coating 8170

Glass coating varnish with advanced optical diffusion technology

APPEARANCE

Frosted

translucent · smoky / frosted

1.05–1.10 g/cm³	approx. 30 %	10–20 GU	180 °C	4H–5H
Density	Solids	Gloss (60°)	Curing, 15 min	Scratch resistance

Product description

UNICA FROSTED GLASS COATING 8170 is a high-performance, water-based acrylic coating that creates a homogeneous, translucent frosted (smoky) look with even light diffusion on glass. Special optical-diffusion additives scatter light inside the film, so the frosted effect is achieved without surface roughness.

Application areas

- Decorative glass panels
- Architectural glass
- Glass lighting fixtures
- Glass furniture elements
- Decorative interior glass coatings
- Glass-surfaced design products

Advantages

- In-film optical diffusion – no surface roughness
- Homogeneous, stable frosted look
- Smooth, silky surface feel
- High adhesion to glass after thermal cure
- Stable atomisation in spray application
- Even film thickness, low defect risk
- Water-based, low VOC

Position in the system

Frosted coating — THIS PRODUCT
FROSTED GLASS COATING 8170 · 25–35 µm WFT

Glass substrate
Washed, rinsed with deionised water, dried

Decorative glass

Frosted look by controlled light diffusion

unica | Boytem
BOYTEM BOYA VE KİMYA SANAYİ TİCARET LİMİTED ŞİRKETİ
Factory: Gümüşova OSB 1. Sk. No:4 İç Kapı No:1 Gümüşova / Düzce – TÜRKİYE
T +90 216 304 03 05 · F +90 216 304 12 15
unicaboya.com · info@unicaboya.com

Optical & mechanical performance

Typical values of the cured film on glass.

GT0	4H–5H	4H	400–600	10–20 GU
Adhesion · ISO 2409	Scratch resistance	Surface hardness	Dishwasher cycles	Gloss at 60°

Adhesion ISO 2409 · scratch resistance and hardness ASTM D3363 · household dishwasher · optical homogeneity high.

Technical data (at +20 °C)

Appearance	**Milky-white liquid**	Wet film thickness	**25–35 µm**
Dry film appearance	**Translucent frosted**	Nozzle size	**1.0–1.3 mm**
Density	**1.05–1.10 g/cm³**	Air pressure	**2–3 bar**
Solids	**approx. 30 %**	Curing	**180 °C / 15 min**
Viscosity (DIN 4, 20 °C)	**25–40 s**	Storage temperature	**+5 °C to +30 °C**
VOC	**Low**	Shelf life	**12 months**

Application procedure

01

Surface preparation

The glass must be free of oil, silicone, dirt and dust: wash with detergent water, rinse with deionised water and dry completely.

02

Application

Apply by HVLP, conventional or automatic industrial spray: 25–35 µm wet film, 1.0–1.3 mm nozzle, 2–3 bar.

03

Curing

Cure at 180 °C for 15 min – the part itself must reach the stated temperature.

Wet film
25–35 µm
Nozzle 1.0–1.3 mm · air pressure 2–3 bar.

Curing
180 °C / 15 min
Part temperature must reach 180 °C.

Durability
400–600 cycles
In a household dishwasher.

Important: the glass must be completely free of oil and silicone – residues cause adhesion and appearance defects.

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Packaging

- 5 kg and 20 kg

Storage

- Store in original closed packaging at +5…+30 °C.
- Protect from frost.
- Shelf life: 12 months.

Safety

- Read the Safety Data Sheet (SDS) before use.

LEGAL NOTE

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