CONCRETE & STONE PROTECTION · WATER-BASED

Unisil 301

Water-based, water-repellent concrete impregnation primer

APPEARANCE
Transparent
UV-resistant

1.02 g/cm³	0 VOC	30 min	min. 2 h	0.150 kg/m²
Specific gravity (approx.)	Volatile organic compounds	Touch dry	Recoat interval	Theoretical, 1 coat

Product description

UNISIL 301 is a water-based, siliconate-based, transparent and UV-resistant water-repellent impregnation primer for the surfaces of building elements. Its high penetration greatly reduces water absorption without changing the appearance of the surface.

Application areas

- Absorbent surfaces: decorative brick, aerated concrete, concrete, plaster, travertine, natural stone
- Low-absorbent surfaces: marble, granite
- Protection of historic surfaces against atmospheric effects
- Cement-based joint grout surfaces

Advantages

- Ready to use
- 0 VOC
- Spray, roller or brush
- Superior water repellency
- Protects without changing the appearance
- Does not hold dust – easy to clean

Position in the system

Water-repellent impregnation — THIS PRODUCT
UNISIL 301 · 0.150 kg/m² per coat

Substrate
Brick · aerated concrete · concrete · natural stone

Facade & surface protection

Invisible water-repellent protection for mineral surfaces

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

Technical data (at +20 °C)

Base	**Water-based siliconate**
Appearance	**Transparent**
Specific gravity (approx.)	**1.02 g/cm³**
VOC	**0**
Touch dry	**30 min**

Recoat interval	**min. 2 h**
Theoretical consumption	**0.150 kg/m² (1 coat)**
Application temperature	**+14 °C – +35 °C**
Shelf life	**12 months**

Application procedure

01

Surface preparation

Remove blistered and flaking paint, loose particles and dust. Repair cracks with special repair mortars and putties. The surface must be dry and free of damp patches.

02

Application

Apply undiluted by airless, air spray, roller or brush until the surface is saturated. Avoid runs.

03

Number of coats

Absorbent surfaces: two coats at max. 3–4 h interval. Low-absorbent surfaces: one coat is sufficient.

04

Cleaning

Clean all application equipment with tap water after use.

Application conditions
+14 °C – +35 °C
Do not apply below +14 °C or above +35 °C air temperature.

Consumption
0.150 kg/m²
Theoretical per coat – varies with porosity, temperature and technique.

Recoat interval
min. 2 h
Second coat on absorbent surfaces within max. 3–4 h.

Important: consumption may vary with surface porosity, ambient temperature and application technique.

Packaging

- 20 L PE jerrycans

Storage

- Store unopened in original packaging in closed, dry areas at 15–35 °C.
- Shelf life: 12 months from production.
- Protect from sun and frost.

Safety

- Not hazardous; contains no formaldehyde, asbestos, mercury, lead, chromate or derivatives.
- See the Material Safety Data Sheet (MSDS).

Cleaning

- Clean all equipment with tap water after use.

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

LEGAL NOTE

The explanations provided in this technical data sheet are based on test evaluations and results conducted according to relevant standards and are intended to guide applicators. As workmanship, weather conditions, construction, equipment used and other variables that may affect results are entirely beyond our control, UNICA does not provide any explicit or implicit warranty regarding this material. UNICA only guarantees that the material conforms to its product specifications, and its sole responsibility towards the buyer or user of this product is limited to the replacement value of the product in case of manufacturing defects. Under no circumstances shall UNICA be liable for any direct or incidental, special or consequential injury, loss or damage arising from the material or its application. UNICA shall not be held responsible in any way for any defects, alterations or changes in conditions in the substrate where its products are applied.

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