

TECHNICAL DATA SHEET

CLEARSHIELD 100

Transparent Two-Component Polyurethane Waterproofing Material



Transparent, UV-resistant polyurethane waterproofing and protective coating for exposed surfaces.

DESCRIPTION

ClearShield 100 is a two-component polyurethane-based transparent waterproofing material with high UV resistance and strong adhesion.

It provides clear waterproofing and surface protection where the original appearance of the substrate is to remain visible.

ADVANTAGES

- Excellent adhesion on suitable epoxy and polyurethane surfaces and substrates such as concrete, asphalt and steel
- Easy application by brush, roller or spray
- UV and thermal resistance
- Abrasion, impact and chemical resistance
- Suitable for horizontal and vertical surfaces

AREAS OF APPLICATION

- Balconies and terraces
- Glass and metal-mesh reinforced glass
- Glass-block walls
- Natural stone surfaces
- Wood and metal surfaces
- Outdoor areas requiring high UV resistance

TECHNICAL INFORMATION

Property	Declared value
Chemical structure	Polyurethane
Colour	Transparent
Packaging	5 kg set
Density	0.97 ± 0.03 g/ml (EN ISO 2811-1)
APPLICATION PARAMETERS	
Applicable surface temperature	+5°C to +40°C
Pot life	40-45 min
Cleaning time	45 min
Opening to pedestrian traffic	3 days
Full curing	7 days
Consumption	100-150 g/m ²
Thinner	Polyurethane paint thinner

CLEARSHIELD 100

TECHNICAL DATA SHEET | REV 001

SURFACE QUALITY

The application surface must be dry and free from dust, dirt, weak or loose particles, cement grout residues, oil and grime.

For concrete substrates, compressive strength should be at least 25 N/mm² and pull-off strength at least 1.5 N/mm².

SURFACE PREPARATION

Clean the substrate by suitable mechanical or chemical methods to obtain maximum adhesion. The surface must remain sound, clean and dry before application.

MIXING

Add component B to component A and mix for 2-3 minutes with a low-speed electric mixer, maximum 400 rpm, until a homogeneous appearance is obtained.

APPLICATION

Apply ClearShield 100 continuously to obtain a pore-free surface. It may be applied by brush, roller or spray.

Work within the stated pot life and ensure full, uniform coverage of the substrate.

APPLICATION CONDITIONS

Applicable surface temperature: +5°C to +40°C. Do not apply below the minimum permitted temperature required for curing.

Low temperatures slow curing; higher temperatures accelerate curing and shorten working time.

RESTRICTIONS

- If the product remains below 0°C for a prolonged period, crystallization may occur. Once returned to room temperature and the crystals are dissolved, the material can be used again.
- Avoid skin and eye contact during application.

CLEANING

Wash hands with warm water and soap after use. Clean tools and equipment immediately before the material hardens using a suitable polyurethane paint thinner.

Hardened material can only be removed mechanically.

HEALTH & SAFETY

The product may irritate skin. Use protective gloves and goggles during mixing and application.

In case of eye contact, rinse immediately with warm water and seek medical advice. Refer to the current Safety Data Sheet (SDS) for detailed information.

IMPORTANT INFORMATION

Application and curing times depend on temperature. Use only within the stated application conditions and follow the current product instructions and SDS.