

PURION COLOR

COLOURED POLYURETHANE RESIN - **SCREED** version

USE

Two-component solvent-free polyurethane resin for final layers in smooth systems. A screed specially formulated for pouring in thick layers - it spreads and vents perfectly.

SUBSTRATE

The mineral substrate should be of class min. C20/25 with a stripping strength of min. 1.5 MPa. The relative humidity of the substrate should not exceed 4% (by weight). The resin should not be applied to raw (unprimed) substrates.

ADVANTAGES

- low viscosity
- excellent flowability
- very good chemical and mechanical resistance
- no organic solvents
- easy to apply
- very good adhesion to the substrate
- easy to keep clean

METHODS OF APPLICATION

Toothed squeegee, spiked roller for venting.

EFFICIENCY

The consumption should be 0.6 - 2 kg/m² depending on the desired effect.
The higher the consumption, the smoother and more even (mirror-like) the surface.

EXECUTION OF WORKS

Mix Component A before use, add the weighed amount of Component B, mix thoroughly for approx. 3-4 minutes using a slow speed mixer. Once mixed, the curing process begins irreversibly - always prepare a portion that can be applied evenly within approx. 15-20 minutes.
Polyurethane resins are very sensitive to moisture, both from the substrate and from the air. The relative humidity of the air should not exceed 75%. During the work it is necessary to control the air humidity and the floor temperature to avoid the dew point and condensation conditions.
and condensation on the surface.

TECHNICAL PARAMETERS

	PARAMETER	VALUE	UNIT
1	Mixing ratio Component A Component B	100 30	by weight by weight
2	Chemical base	aliphatic polyurethane	-
3	Density	1,20 to 1,40	[g/cm ³]
4	Viscosity	600 to 800	[mPa*s]
5	Shelf life at 20°C	20-30	[min]

6	Shore D hardness	~60	[unit]
7	Abrasion resistance	AR 0,5 (for the smooth system)	[class]
8	Peel strength	>1,5	[MPa]
9	Suitability for use +10°C +20°C +30°C	~40 ~30 ~20	[min] [min] [min]
10	Curing time (min-max waiting time before reapplication) +10°C +20°C +30°C	30-72 24-48 16-36	[h] [h] [h]
11	Load capacity* (pedestrian traffic/light load/full compaction) +10°C +20°C +30°C <i>*approximate times</i>	24 h/72 h/9 d 12 h/2 d/5 d 8 h/24 h/72 h	-

AVAILABLE COLORS

All RAL colors.

TOOLS CLEANING

Clean tools and possible contamination freshly with acetone or other polyurethane solvent. If cured, the resin can only be removed mechanically.

CLEANING AND MAINTENANCE OF A RESIN FLOOR

- **Si-Clean** – preparation for daily cleaning and care
- **Si-Wax** – sam high-gloss polymer paste
- **Si-Active Resin Clean** – alkaline cleaner for basic cleaning and removal of heavy soiling

STORAGE

Store resin and hardener in closed factory containers. Do not allow to freeze. Do not heat above 25°C.

CONTAINERS

Plastic containers (Component A and B).

HEALTH AND SAFETY REQUIREMENTS

Some components of flooring compounds in their uncured state are harmful to health. They can cause allergies in particularly sensitive people. Special precautions must be taken when carrying out the work. The rooms where the floors are prepared and applied must be well ventilated. Workers should wear: clothing, shoes, protective goggles and gloves. Detailed safety rules are given in the Safety Data Sheets of the ingredients. Purion polyurethane flooring compounds are physiologically inert to the human body after curing.

Note: *The above information has been compiled to the best of our technical knowledge, but is not legally binding.*

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