

Paints for concrete surfaces

BETONKOLOR

Water-based acrylic paint for concrete surfaces

Usage and Properties

BETONKOLOR is made from special water-based acrylic binders, UV-resistant inorganic pigments and additives that provide good adhesion to concrete and fibre-concrete surfaces. It is highly resistant to atmospheric influences, including acid rain, rain, snow and UV radiation. By preventing moisture absorption, it prevents algae and moss growth and frost cracking, effectively protecting concrete surfaces.

BETONKOLOR is especially suitable for protecting non-walkable concrete surfaces, such as concrete roof tiles, eternit and fibre roofing sheets, concrete facades, fences and concrete chimneys.

Highlights

- Easy maintenance and a professional surface appearance
- Very good UV and weather resistance
- Water vapour permeable
- Fast and low-cost solution with optimal characteristics.

Field of application

- For non-walkable concrete surfaces, including concrete roof tiles, eternit and fibre roofing sheets
- Not usable on clay tiles and natural slate
- For concrete facades, fences and concrete chimneys

Technical properties

Property	Value and conditions
Packaging	5 kg 10 kg 25 kg
Processing	Minimum 8°C (air and substrate temperature)
Processing — Humidity	Minimum 30 % and maximum 85 % RH
Drying time (walkable)	12 °C: 4 - 6 h 20 °C: 2 - 3 h 25 °C: 1.5 - 2 h
Curing	Direct rain no longer damages the coating after 5 hours at 20°C.
Further Coatings	6 hours
Dilution	20-30% water for the first coat; up to 5% for the second coat, as needed for application.
Consumption per coat — Smooth surface, brush	Approx. 0.10-0.20 kg/m ²
Consumption per coat — Rough surface, airless	Approx. 0.20-0.30 kg/m ²
Shade	Anthracite, light grey, brick red and chocolate brown; matt

Property	Value and conditions
Solid Contents	60 ± 2 mass%; 45 ± 2 vol%
Density	1.4 g/ml DIN EN ISO 2811-2 20°C
VOC Content	IIA(c), 40 g/l (2010); product contains: max. 10 g/l

All technical data in this technical data sheet are based on laboratory tests. Actual values may vary depending on application conditions beyond our control.

Preparation of substrate

Before painting, remove dust, friable particles, algae, moss and other contamination, and repair damage to ensure adequate adhesion.

Clean the surface thoroughly, normally with high-pressure equipment at approximately 120-150 bar. Painting may begin once the water has drained and the surface is still matt-damp.

Preparation of material

The ideal working temperature is 20°C. Air and substrate temperatures may range from 8°C to 30°C.

Application of material

For application to a dry surface, dilute the paint with up to 30% water; for a matt-damp surface, use up to 20%. Apply directly without prior treatment with an emulsion.

Apply to smooth surfaces with a brush or roller. Rough surfaces must be sprayed with airless equipment.

Direct rain no longer damages the coating after 5 hours. Apply successive coats 6 hours apart.

Before application, protect all surrounding surfaces and plants.

Consumption per coat depends on surface smoothness and the application method. Typical consumption is 0.15 kg/m² on smooth surfaces with a brush and 0.25 kg/m² on rough roofing surfaces with airless equipment.

Cleaning of tools and surfaces after use

Clean tools and equipment immediately after work with water and soap. Later, use acetone or nitro thinner, or remove residues mechanically.

Storage of material

Shelf life is 12 months from the date of manufacture in tightly sealed, undamaged original packaging, stored in a dry place at +5°C to +25°C.

Additional information

Acclimatise the coating in the working environment for at least 24 hours before use.

Remarks

All technical data in this technical data sheet are based on laboratory tests. Actual values may vary depending on application conditions beyond our control.

Protect fresh material from moisture, condensation and water for at least 5 hours after application. Outdoors, apply while the substrate temperature is falling. If the air and substrate need heating, do not use heaters that release large amounts of CO₂ or moisture, such as gas, paraffin or other fossil-fuel heaters. Use only electric heaters.

Safety information

- Provide forced ventilation when applying the material in enclosed, unventilated spaces. Do not apply near open flames or welding.
- Wear protective equipment, including gloves and goggles, during work.
- Change contaminated clothing and wash your hands before eating and after work.
- Observe the safety warnings on the packaging label.

Important notice

- Transport only at temperatures above 5°C; otherwise, the vehicle must be heated.
- Dispose of uncured or unbound material in accordance with applicable regulations. Fully cured material may be disposed of at municipal landfills in accordance with applicable regulations.
- Detailed safety precautions and physical, toxicological and ecological data are provided in the safety data sheet, available from Chemcolor sales or at www.chemcolor.si.

This information is based on our experience to date and careful research. Site conditions and knowledge of the work affect the quality of application. Successful results depend on a professional assessment of the substrate before work begins and practical experience in selecting the appropriate product. Please also follow the recommendations of the manufacturer of the final covering and the safety data sheet for this product.