

BERGOLIN POLYCRETE GELCOAT 6D4800

Series 6D4800 · Solvent-free 2K PU gelcoat for shower trays made of PU-based polymer concrete (PolyCreteX); DIN EN 14527



01 PRODUCT DESCRIPTION

Bergolin PolyCrete Gelcoat 6D4800 is a solvent-free, fast-curing coating system specifically developed for shower trays manufactured from our PolyCreteX polyurethane-based polymer concrete. It is VOC-free, exhibits low shrinkage, and offers excellent color stability. The gelcoat provides outstanding adhesion to the PolyCreteX substrate and delivers a high-quality, durable surface finish. It supports compliance of the finished shower trays with the requirements of DIN EN 14527.

02 PRODUCT PROPERTIES

Binder system	Polyurethane
Hardener system	Bergolin Hardener 7D4800
Cleaning thinner	Bergolin Cleaning Agent 5P1100
Characteristics	Solventfree UVstable Colour stable Good adhesion
Color shade	White (other colors on request)
Gloss	Application-/form-dependent
Shelf life	Approx. 12 months in the unopened original container at +4 °C to +40 °C. Protect from frost and moisture.
Approvals and specifications	Tested according to DIN EN 14527:2019-06, section 5.3.3.1

Property	Comp. A	Comp. B	Mixture
Density · DIN EN ISO 2811-1 · +20 °C * ¹	Approx. 1.41 g/cm ³	Approx. 1.15 g/cm ³	Approx. 1.33 g/cm ³
VOC content · IE Directive 2010/75/EU * ¹	Approx. 0.394 g/l	Approx. 0 g/l	Approx. 0.27 g/l
Solid content (wt.-%) · SDS * ¹	Approx. 100 %	Approx. 100 %	Approx. 100 %
Viscosity · DIN EN ISO 2555 · +20 °C	Approx. 7000 mPas	Approx. 750 mPas	Approx. 3300 mPas

*¹ Depending on color shade

03 APPLICATION

The following information may vary depending on the application. Please contact your direct contact person for more detailed information.

Substrate	PU-based polymer concrete (PolyCreteX)
Surface preparation	The substrate (PolyCreteX) must be clean, dry, load-bearing and free from release-agent residues and other contamination (e.g. oil, grease, dust).
Mixing ratio	100 : 39 by weight 100 : 50 by volume

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Mixing	Add the hardener component completely to the base component and mix intensively with a suitable stirrer for approx. 1 min.
Theoretical consumption	Approx. 1.39 kg/m ² per mm layer thickness
Film thickness	Min. 400 µm total dry film thickness (wear layer); multi-layer structure required.
Application method	 Roll  Spraying
Application conditions	 Application temperature Room temperature +10 °C to +35 °C (above +20 °C accelerated curing); surface temperature +20 °C to +25 °C. Spraying: material temperature 50–60 °C (do not exceed the maximum).  Relative humidity 20–80 %; dew point 3 °C below object temperature
Pot life ^{*2}	Approx. 15 min
Working time ^{*2}	Approx. 6–7 min
DRYING^{*2}	
Overcoatable	Earliest after 30 min; max. 72 h

^{*2} Values are based on laboratory measurements at +20 °C. Lower temperatures slow down drying; higher temperatures accelerate it.

04 NOTE

This product data sheet supersedes all previously published product data sheets. The information contained herein is based on practical experience under standard conditions and assumes proper storage and processing. Substrates, materials and working conditions may vary. Therefore, no warranty or liability can be derived from the information contained in this document or from verbal consultation. It is the buyer's responsibility to verify the product's suitability for the intended use. Preliminary trials are recommended. The relevant legal regulations, the leaflets of the BG RCI and the accident prevention regulations of the responsible employers' liability insurance association must be observed. In all other respects, our General Terms and Conditions of Sale and Delivery apply.

MODIFIED BY

25.08.2026 – Martin Krull, Head of Laboratory

APPROVED BY

25.08.2026 – Stefan Eisenmenger, Product Management