

Steodur PUR Balancing Compound 2D799

Series 2D799 · Solvent-free 2K PUR casting compound for potting cavities



01 PRODUCT DESCRIPTION

Steodur PUR Balancing Compound 2D799 is a high-quality, solvent-free two-component polyurethane casting compound developed specifically for the potting of cavities and for static balancing. The formulation is distinguished by a particularly low exotherm during curing as well as excellent adhesion to a wide variety of substrates. Thanks to its thixotropic adjustment and its extremely low shrinkage behaviour it can be applied easily even in complex geometries without running or sagging, and after curing achieves high mechanical loadability and very good ageing resistance. It is therefore ideally suited for applications requiring precise, durable filling and mass distribution – for example in electrical engineering, mechanical engineering or the balancing of GRP components. If the self-weight is not sufficient, the casting compound can be weighted down by adding suitable fillers (e.g. steel shot). The product is approved by various OEMs.

02 PRODUCT PROPERTIES

Binder system	Polyurethane
Hardener system	PUR Hardener 7D055
Cleaning thinner	Superdur Thinner 5D402
Characteristics	 Solvent-free  Low exotherm  Fast curing  Mechanically loadable  High density
Color shade	Beige (further color shades on request)
Shelf life	Approx. 12 months in the unopened original container at +4 °C to +40 °C. Protect from frost and moisture.

Property	Comp. A	Comp. B	Mixture
Density · DIN EN ISO 2811-1 · +20 °C ¹⁾	Approx. 2.65 g/cm ³	Approx. 1.23 g/cm ³	Approx. 2.26 g/cm ³
VOC content · IE Directive 2010/75/EU ¹⁾	Approx. 51 g/l	Approx. 0 g/l	Approx. 13 g/l
Solid content (wt.-%) · SDS ¹⁾	Approx. 98 %	Approx. 100 %	Approx. 98 %
Viscosity · DIN EN ISO 2555 / ISO 2431 · +20 °C	Approx. 45,000 mPas	Approx. 60 s (4 mm)	Approx. 6,500 mPas

¹⁾ Depending on color shade

Steodur PUR Balancing Compound 2D799

Series 2D799 · Solvent-free 2K PUR casting compound for potting cavities



03 APPLICATION

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

Substrate	GRP (further substrates on request)
Surface preparation	Before processing, sufficient load-bearing capacity must be ensured.
Mixing ratio	100 : 16 by weight 3 : 1 by volume
Mixing	Stir both components separately and homogenise if necessary. Pour component B into the container of component A and mix with an electric stirrer for at least 3 min at max. 700 rpm. Transfer into a clean container and mix again thoroughly for approx. 1 min. Alternatively, application via a suitable 2K dosing unit with static mixer. Before starting, the unit should be volumetrically calibrated (litre check) and any deviations in the mixing ratio corrected. Maximum permissible deviation $\pm 3\%$.
Application method	 Casting
Application conditions	 Air temperature +15 °C to +35 °C  Relative humidity < 70 %  Dew point min. 3 °C below object temperature
Pot life ^{*2}	Approx. 50 min
Recoating interval (with itself) ^{*2}	Max. 72 h. After the maximum recoating time has elapsed, mechanical surface preparation (e.g. sanding) is required.
DRYING^{*2}	
Fully cured	Approx. 2 h

^{*2} Values are based on laboratory measurements at +20 °C; deviating ambient conditions may extend or shorten the stated times.

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

20.08.2026 – Martin Krull, Head of Laboratory

APPROVED BY

20.08.2026 – Stefan Eisenmenger, Product Management