

## PRODUCT TECHNICAL DATA SHEET

# ONEstone

## Single-component polyurethane binder

### Product Description

Single-component, UV-resistant, solvent-free, polyurethane binder for stone carpets

### Characteristics

- ✓ Single-component, UV stable, non-yellowing
- ✓ Completely odourless – pure elastomer
- ✓ High mechanical and chemical resistance
- ✓ Maximum service temperature 80 °C, short-term up to 200 °C
- ✓ Slow curing – suitable for application at higher temperatures
- ✓ No bubble formation, no crust formation in the packaging

### Application Suitability

The product is suitable for:

- ✓ Outdoor and indoor use
- ✓ Terraces, balconies
- ✓ Roads, pavements
- ✓ Car parks, garages
- ✓ Squares, parks
- ✓ Stairs
- ✓ Swimming pools, whirlpools

### Technical Specifications

Pot life	(20 °C)	45 min	
Touch dry	(25 °C)	12 h	
Walk-on-dry	(25 °C)	24 h	
Cured for service	(25 °C)	5 days	
Temperature resistance		-40 to 80 °C	
Accelerated UV and weathering test, 4000 h		no changes	
Viscosity	(20 °C)	1100–1500 mPa·s	EN ISO 3219
Density	(25 °C)	1 kg/l ± 5%	EN ISO 2811-1
Hardness (Shore D)	(23 °C)	approx. 70	DIN 53 505

## Application

### Substrate Preparation

Remove incoherent parts and dirt from the substrate, for example by grinding, milling or blasting and then thoroughly vacuuming the surface. It is also important to remove grease or old paint, which can cause separation. Remove cement scum from new concrete.

**Temperature of the substrate, environment and material:** +5 °C min / +30 °C max

The optimum temperature for application is about 20 °C; higher temperatures speed up the curing time, lower temperatures slow down the process. Do not apply in rain.

## Application Instructions

- ✓ Tools – stirrer, brush, roller, steel trowel
- ✓ Mix the binder with the aggregate for about 2 minutes:
  - aggregate fraction 2–8 mm – 4% of binder to aggregate (**1 kg per 25 kg of aggregate**)
  - fine sand fraction – approx. 6% of binder to aggregate
  - coarse aggregate – 8–16, 16–32 etc., approx. 2% of binder to aggregate
- ✓ Use a steel trowel to apply the mixture to the primed surface in the desired thickness and tamp it thoroughly; you can also smooth it mechanically
- ✓ Prevent contamination of the surface with other materials during curing time

### Application Types:

- Use **ONEbasic** for priming – it excels in fast curing (approx. 1–2 hours) and depth reinforcement
- 25 kg of aggregate – approx. thickness of 1.5 cm per 1 m<sup>2</sup>
- 1–1.5 cm for foot traffic
- 2–3 cm for vehicle traffic
- To make the application more convenient, a combination of window cleaner and water at a concentration of 30%, sprayed lightly on the surface and the trowel, can be used during smoothing

## Tool Cleaning and Environmental Protection

Clean tools immediately after application with acetone or thinner S6006. The cured material can only be removed mechanically. Avoid contamination of the environment.

## Packaging and Storage

**Packaging:** 1 kg, 10 kg  
**Storage:** +5 °C to +30 °C

**Shelf life:** 12 months in original, unopened and undamaged packaging from date of manufacture

## Safety Regulations and Protective Measures

Safety instructions and applicable OSH regulations of the relevant authorities must be observed when handling. Use protective clothing, goggles and gloves during application. Detailed information on hygiene, occupational safety and environmental protection is provided in the Safety Data Sheet.

## Legal Notice

The information, especially the handling and application instructions for our products, is based on our knowledge of the development and application of chemical products and our many years of application experience under standardized conditions and proper storage and use. In view of the different preparation conditions, external influences of varying nature and the characteristics of the substrates, following the above information or other written or oral recommendations may not always guarantee a satisfactory work result. The client/contractor must test the products to ensure that they are suitable for the intended application.