



# SoproDur<sup>®</sup> HF-L 513

## High-strength epoxy protective coat



Two-component epoxy resin protective coating based on a special, pigmented construction resin system. For protection of cementitious substrates against mechanical and chemical loads.

- High abrasion resistance
- Solvent-free
- Chemical-resistant
- Straightforward application
- For indoor and outdoor use
- Colour: RAL7030 stone grey

### Use

For protection of cementitious substrates, e.g. screeds, concrete surfaces and finished floor surfaces produced with Sopro HF-S 563 high-strength floor-levelling compound, against mechanical loads and aggressive chemicals, e.g. acids, alkalis, salts, organic substances and solvents. Cures to produce a water- and vapour-proof surface barrier. Do not use SoproDur<sup>®</sup> HF-L 513 in areas exposed to rising damp.

### Suitable substrates

Cementitious substrates, e.g. screeds, concrete surfaces and finished floor surfaces produced with Sopro HF-S 563 high-strength floor-levelling compound; screeds incorporating rapid-set binders or rapid-set screed mortars, e.g. Sopro Rapidur<sup>®</sup> FE 678, Sopro Rapidur<sup>®</sup> B1 turbo, Sopro Rapidur<sup>®</sup> B3, Sopro Rapidur<sup>®</sup> B5, Sopro Rapidur<sup>®</sup> M1 or Sopro Rapidur<sup>®</sup> M5, with moisture content < 4.0% CM.

### Colour

Stone grey

### Mixing ratio

4 kg Component A : 1 kg Component B

### Application temperature

From +5°C

### Working life

30–40 minutes

### Curing time

4–5 hours

### Waiting time between coats

6–24 hours, depending on temperature and ambient conditions

### Fully loadable

After approx. 3 days

### Coverage

300–400 g/m<sup>2</sup> per coat

### Shelf life

At least 24 months, subject to storage indoors in dry conditions at temperature between +5°C and +30°C in original unopened containers.

### Packaging

5 kg packaging comprises:  
 Bucket, Component A 4 kg  
 Bottle, Component B 1 kg

### Properties

SoproDur® HF-L 513 is an easily workable, highly abrasion-resistant, chemical-resistant, solvent-free epoxy resin protective coating. It is frost-resistant and creates a durable, water- and vapour-proof surface barrier.

### Substrates

To ensure bubble-free application of SoproDur® HF-L 513, pretreat substrate with Sopro EPG 522 epoxy primer (indoor areas), Sopro BH 869 construction resin (indoor areas) or Sopro ESG 868 epoxy primer sealer (outdoor areas). Please observe guidelines of relevant technical data sheet. Substrates should be absolutely clean, dry, solid, strong, dimensionally stable and free from dust, grease, oil residue, old paint coatings and loose particles, which may impair adhesion. Cracks and damaged surfaces should be properly repaired, e.g. using Sopro RAM 3 454 renovation and levelling mortar. Porous patches and minor surface irregularities may be levelled out using Sopro RS 462 repair filler. Apply SoproDur® HF-L 513 only to fully cured substrates.

### Application

Component A and Component B are supplied in correct mixing proportions (1 : 4). Add all Component B to Component A and mix using slow-speed mechanical stirrer to homogeneous consistency. Also stir at sides and bottom to ensure uniform distribution of curing agent throughout mix. Transfer prepared mix to clean container and thoroughly restir. Do not apply material directly from original supplied container. Roll, brush or spray on SoproDur® HF-L 513 in two coats. Apply second coat within 6–24 hours, depending on ambient conditions. Protect surface from rain for min. 12 hours after application. SoproDur® HF-L 513 may be exposed to chemical and mechanical loads after 24 hours.

### Specified times

Apply for normal temperature range of +23°C and 50 % relative humidity; higher temperatures shorten and lower temperatures lengthen these times.

### Tools/tool cleaning

Rollers, brushes and spray equipment can be cleaned with ethanol before SoproDur® HF-L 513 cures

### Disposal

Mix residual material (Components A+B), allow to cure in container and ensure disposal in accordance with local statutory regulations. Clean containers are recyclable.

### Test certificate

**Institute for Occupational Safety and Health (IFA) of the German Social Accident Insurance:**  
SoproDur® HF-L 513 blinded with Sopro QS 511 coarse silica sand (min. 1.2 kg/m<sup>2</sup>) meets criteria for class R11 slip resistance to DIN 51130.

## Safety precautions

**Component A (GHS02, GHS07, GHS09)**

**Signal word:** Warning

**Hazard-determining components:** Reaction product: Bisphenol A-epichlorohydrin resins with average molecular weight  $\leq 700$ ; 1,6-bis(2,3 epoxypropoxy)hexane; bisphenol F epoxy resin.

**Hazard statements:** H226 Flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H411 Toxic to aquatic life with long-lasting effects.

**Supplemental hazard information:** EUH205 Contains epoxy constituents. May produce an allergic reaction.

**Precautionary statements:** P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P370+P378 In case of fire: Use powder extinguisher to extinguish.

**Transport regulations to ADR/RID/GGVSE (German Dangerous Goods Ordinance for Road and Rail Transport):** Class 9; UN no. 3082; Packing group: III; Limited quantities: (5L)

**German Water Hazard Class (WGK):** 2 (hazardous to water)

**Component B (GHS05, GHS07)**

**Signal word:** Danger

**Hazard-determining components:** Benzyl alcohol; 3-aminomethyl-3,5,5-trimethylcyclohexylamine.

**Hazard statements:** H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long-lasting effects.



**Precautionary statements:** P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P310 Immediately call a POISON CENTER or doctor. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Transport regulations to ADR/RID/GGVSE (German Dangerous Goods Ordinance for Road and Rail Transport):** Class 8; UN no. 2735; Packing group: III; Limited quantities: (5L); Tunnel restriction code: (E)

**German Water Hazard Class (WGK):** 3 (severely hazardous to water)

EU threshold for product (Cat. A/j, Lb): 500 g/ltr (2010). Max. VOC content of this product: 500 g/ltr VOC.

## CE marking

 <b>1305</b>	 <b>Sopro</b> Sopro Bauchemie GmbH Biebricher Straße 74 – 65203 Wiesbaden (Germany) www.sopro.com
09 CPR-DE3/0513.1.eng EN 1504-2:2004 SoproDur® HF-L 513 Surface protection product - Coating for intended use in: protection against ingress; moisture control and increasing resistivity; physical resistance; chemical resistance	
Reaction to fire <span style="float: right;">Class E<sub>n</sub></span>	
Abrasion resistance <span style="float: right;"><math>&lt; 3,000 \text{ mg}</math></span>	
Permeability to CO <sub>2</sub> <span style="float: right;"><math>s_D &gt; 50 \text{ m}</math></span>	
Water vapour permeability <span style="float: right;">Class III</span>	
Capillary absorption and permeability to water <span style="float: right;"><math>&lt; 0.1 \text{ kg} \times \text{m}^{-2} \times \text{h}^{-0.5}</math></span>	
Resistance to thermal shock <span style="float: right;"><math>\geq 2.0 \text{ N/mm}^2</math></span>	
Resistance to several chemical attack reduction in hardness Shore D $< 50\%$	
Impact resistance <span style="float: right;">Class I</span>	
Adhesion strength by pull-off test <span style="float: right;"><math>\geq 1.5 \text{ N/mm}^2</math></span>	
Dangerous substances <span style="float: right;">comply with 5.3 / see SDS</span>	

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