

smet

# 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 shall 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 shall 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

**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.

**Disposal****Disposal considerations**

13.1. Waste treatment methods. The generation of waste should be avoided or minimized wherever possible. Recover if possible.

A waste code (EWC) according to European List of Waste (LoW) cannot be specified, due to dependence on the usage. Contact and send to an authorized waste disposal service.

Methods of disposal:

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

Hazardous waste: Yes

Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

**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**

 1305	 <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	Class E <sub>h</sub>
Abrasion resistance	< 3,000 mg
Permeability to CO <sub>2</sub>	s <sub>D</sub> > 50 m
Water vapour permeability	Class III
Capillary absorption and permeability to water	< 0.1 kg × m <sup>-2</sup> × h <sup>-0.5</sup>
Resistance to thermal shock	≥ 2.0 N/mm <sup>2</sup>
Resistance to several chemical attack	reduction in hardness Shore D < 50%
Impact resistance	Class I
Adhesion strength by pull-off test	≥ 1.5 N/mm <sup>2</sup>
Dangerous substances	comply with 5.3 / see SDS

bringing european innovation

**smet**

FOR MORE INFORMATION CONTACT: Smet Building Products Ltd

93A Belfast Road | Newry | BT34 1QH | Northern Ireland

T: +44 (0)28 3026 6833 ROI: +353 (0) 1697 8586

E: info@smetbuildingproducts.com

smetbuildingproducts.com or smet.ie



The information, and, in particular, the recommendations relating to the application and end-use of SMET distributed products, are given in good faith based on SMET's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with the manufacturer's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. The manufacturer reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.