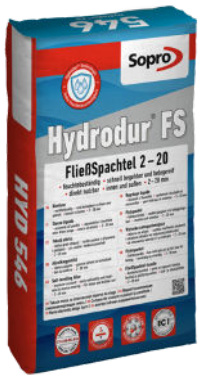
Hydrodur® FS

Self-levelling filler 2 - 20

HYD 546



Directly usable, moisture-resistant, flow-applied, self-levelling, rapid-set, cementitious surface filler. For levelling out mineral substrates to produce smooth, plane, unbroken subfloor surfaces, particularly in moisture-exposed spaces. Prior to installation of all kinds of suitable flooring materials, in particular designer vinyl coverings.

- For floors, indoors and outdoors
- Coat thickness: 2 - 20 mm
- For levelling floors in swimming pools (used in conjunction with Sopro waterproof membrane)
- As base for membrane-lined pools
- On concrete ground slabs exposed to rising damp
- In moisture-exposed entrance areas
- Smooth and level for subsequent flooring installation
- Ready to receive ceramic covering: after approx. 3 hours
- Pumpable
- Compressive strength after 28 days: approx. 30 N/mm²
- Flexural tensile strength after 28 days: approx. 6 N/mm²
- Low-chromate to Regulation (EC) No 1907/2006, Annex XVII

Coverage: Approx. 1.7 kg / m² / mm

Order nr.	Delivery form	Pcs./pal.	kg/pal.
7754625	Bag 25 kg	40	1.000 kg

Use

Floor-levelling compound for production of smooth, unbroken surfaces for direct use as finished floor or to receive subsequent floor coatings or any suitable type of floor covering.

Properties

Sopro HYD 546 is a moisture-resistant, flow-applied, rapid-set, cementitious floor-levelling compound with excellent workability and hardened mortar properties. Thanks to a formulation based on special cements, Sopro HYD 546 offers enhanced moisture resistance together with high reliability in moisture-exposed spaces. Product's high abrasion resistance makes it suitable for production of finished floor surfaces. Product is also pumpable and suitable for use in conjunction with floor heating systems.

Compressive Strength

Approx. 30 N/mm² after 28 days

Flexural Tensile Strength

Approx. 6 N/mm² after 28 days

Strength Class

CT-C30-F6

Abrasion Resistance

Abrasion resistance class (Böhme test): A12

Substrate Preparation

Substrate shall be dry, strong, crack-free, dimensionally stable and free from adhesion-impairing substances (e.g. dust, oil, wax, release agent, efflorescence, laitance, paint, lacquer and varnish residue, old flooring adhesive residue). Fill any existing cracks in screed with structurally bonding Sopro GH 564 casting resin or Sopro SH 649 shaken resin. Cement screeds shall be 28 days old and dry. Cement screeds incorporating heating elements shall be heated up to ensure adequate drying out (≤ 2.0% CM).
Incorporate Sopro RDS 960 perimeter insulation strip at junctions with vertical elements to prevent restraint and escape of self-levelling compound. Where perimeter insulation strips are already incorporated in substrate, adopt same line and width of these strips.
Assessment of substrate shall comply with relevant standards and regulations.

Primer

- Sopro GD 749 primer: All mineral, high- or variable-suction substrates, e.g. cement screeds, concrete and untreated concrete surfaces (min. 3 months old).Sopro GD 749 primer shall be applied in undiluted form.
- Sopro HPS 673 bonding primer: All smooth, non-absorbent substrates, e.g. existing tile and terrazzo coverings or firmly adhering adhesive residue.
- Sopro MGR 637 multi-purpose primer/Sopro EPG 1522 epoxy primer: Moisture-sensitive substrates, e.g. magnesium oxychloride (magnesite) screeds, calcium sulphate screeds (CA and CAF).

Application

Fill clean mixing container with specified water quantity, add Sopro HYD 546 and mix mechanically to homogeneous, lump-free consistency. Then pour mixed compound onto prepared substrate and spread uniformly using squeegee or finishing trowel. Depending on coat thickness, use spiked roller or other suitable tools, e.g. screeding rod, to release air from freshly applied filler and ensure bubble-free surface. Ensure that no material is used whose shelf life (see imprinted filling date) has been exceeded, even where fresh material is simultaneously incorporated in screed surface or used to extend old product.
Wherever possible, compound shall be applied to required thickness in a single coat. If, in specific cases, application in several coats proves necessary, each coat shall be given adequate time to achieve walkability and be pretreated with Sopro HE 449 bonding emulsion prior to application of following coat. Please observe technical product information for Sopro HE 449.
In case of low humidity and high room temperature, draughts and direct exposure to sunlight, freshly applied coat shall be covered with sheeting to ensure optimum, crack-free curing.
For greater efficiency, use of a suitable mixing pump is recommended for application of

large material quantities.
In damp and wet spaces, filler-coated surfaces shall be waterproofed with Sopro FDF flexible sealing compound, Sopro TDS 823 two-component turbo sealing slurry, Sopro DSF 423 two-component flexible sealing slurry, Sopro DSF 523 one-component flexible sealing slurry, Sopro DSF 623 flexible RS sealing slurry or Sopro AEB 640 waterproofing and separating membrane.
Where designer vinyl coverings are subsequently laid, thin-layer Sopro HYD 546 levelling coat (max. thickness 3 mm) applied to suitable, intact Sopro waterproof barrier installed with Sopro FDF, Sopro DSF 623 or Sopro AEB 640 requires no further waterproofing.

Outdoors:

- Where covering is to be installed, filler-coated surfaces shall be waterproofed with suitable membrane (e.g. Sopro TDS 823, Sopro DSF423/523, Sopro DSF 623 or Sopro AEB plus 639).
- When used to produce finished floor surfaces, Sopro HYD 546 shall be finished with SoproDur® HF-L 513 high-strength epoxy protective coat and blinded with silica sand for adequate slip resistance.
- Suitable for application to falls of up to 2 %.

Water demand

Per package	25 kg
Self-levelling filler	4,75 l - 5 l

Flow Table Value Post-Text

(Vicat ring to DIN 1164; size: internal diameter 65 mm at top and 75 mm at bottom, height 40 mm; on suitable, dry, clean glass plate)

Walkable

After 3 - 4 hours

Ready To Receive Floor Covering

Ready to receive ceramics and cast stone after approx. 3 hours.
Ready to receive natural stone after approx. 24 hours.
For elastic, textile, laminate, parquet and wood block floor coverings, maximum permissible moisture content (≤ 1.8% CM) of surface filler shall be confirmed by CM measurement prior to flooring installation. Empirical values for achievement of this – in function of filler coat thickness, subject to application to dry substrate, and depending on indoor environmental conditions – are as follows: 24 - 72 hours

Floor Heating

Suitable

Suitable Substrates

Cement screeds, concrete (min. 3 months old), existing tile, terrazzo, natural and cast stone coverings, magnesium oxychloride (magnesite) screeds and heated floor constructions.
Where Sopro HYD 546 is applied in a coat thickness of max. 3 mm prior to installation of a designer vinyl covering, then following substrates are also suitable: Sopro FDF flexible sealing compound, Sopro DSF 623 flexible RS sealing slurry or Sopro AEB 640 waterproofing and separating membrane.
Provision shall be made to ensure adequate adhesion to concrete ground slabs that have not fully dried.
Use of Sopro FSH 561 hybrid self-levelling filler is recommended for calcium sulphate and mastic asphalt screeds.
Suitable for floor heating systems. Prior consultation with Sopro Technical Service team (+ 49 611 1707 – 111) is required.

GEV Emicode

EC1PLUS very low emissionPLUS

Shelf Life

Approx. 12 months (in dry conditions, in original, unopened containers)

Coat Thickness	2 - 20 mm On Sopro FDF, Sopro DSF 623 or Sopro AEB 640 prior to laying designer vinyl coverings: max. 3 mm coat thickness.
Application Temperature	Application temperature between +5 °C and +25 °C
Working Life	20 - 30 minutes
Tools	Mixing attachment, squeegee, finishing trowel, mixing pump, spiked roller
Tool Cleaning	Wash tools with water immediately after use.
Specified Times	Apply for normal temperature range of +23 °C and 50 % relative humidity; higher temperatures shorten and lower temperatures lengthen these times.
Maturation time	2 - 3 minutes
Safety instructions	GHS05 GHS07 **Signal word** Danger Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. EUH208 Contains Portland cement. May cause allergic reactions. **Contains:** Contains Cement, portland, chemicals. German Water Hazard Class: German Water Hazard Class WGK 1 (slightly hazardous to water)
Disposal	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.

®

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