

SMART[®] system

Strong | Mineral Airy | Rapid | True



As alternative to board
subfloor systems

Speeds up progress
on site

Non-combustible,
thermally and sound-
insulating

Sopro SMART® system

Sopro SMART® is a time-saving renovation screed system with low area loads. The key benefits of the system, which was purpose-developed for the refurbishment and renovation sector, are expressed by the name – with SMART® standing for Strong, Mineral, Airy, Rapid and True.

Its core element is the new Sopro LZ 987 SMART® lightweight aggregate, a non-combustible, mineral material made from expanded glass granulate. Sopro LZ 987 is mixed with Sopro Rapidur® B5 rapid-set screed binder to produce moisture-resistant, thermally and sound-insulating, lightweight levelling layers with low area loads and lasting dimensional stability. This is overcoated with a min.

10 mm thick self-levelling filler layer comprising Sopro VS 582, reinforced by Sopro PG-X 1188 armour scrim eXtra, that serves to spread loads and create a true, level surface.

Thanks to its rapid installation, the Sopro SMART® system offers an interesting alternative to conventional board subfloor solutions. Its true, level finish makes it ideal for the subsequent installation of large-format ceramic units.

Sopro SMART® system

Strong | Plane surface with no springiness

Mineral | Non-combustible, A1 fire rating to DIN 4102

Airy | Extra-low weight per unit area

Rapid | Allows early tiling, alternative to board subfloors

True | Levelling, with coat thickness ≥ 20 mm ¹⁾

Application of Sopro SMART® system



Fix perimeter insulation strip.



Mark datum line and reference points in accordance with required installation levels: Sopro SMART® lightweight levelling layer (> 20 mm ¹⁾), Sopro VS 582 self-levelling filler (> 10 mm), adhesive coat and ceramic thickness.

¹⁾ For bonded construction.



3

Mix 18 kg Sopro LZ 987 SMART® lightweight aggregate with approx. 12.5 kg Sopro Rapidur® B5 rapid-set screed binder and approx. 6.5–7.5 ltr water. Use of forced-action mixer is recommended for larger areas.



4

Place Sopro SMART® lightweight levelling layer in same way as conventional screed.



5

Additionally compact surface of placed material and remove any projections.



6

Sopro PG-X 1188 armour scrim eXtra may be installed after approx. 12 hours. Lay sheets with 5 cm lap.



7

Then place Sopro VS 582 self-levelling filler (min. 10 mm²⁾ coat thickness when fully cured). Pour filler bucket-wise from low height, working in same direction as laps between sheets. Place material as accurately as possible to required levels or with only slight excess.

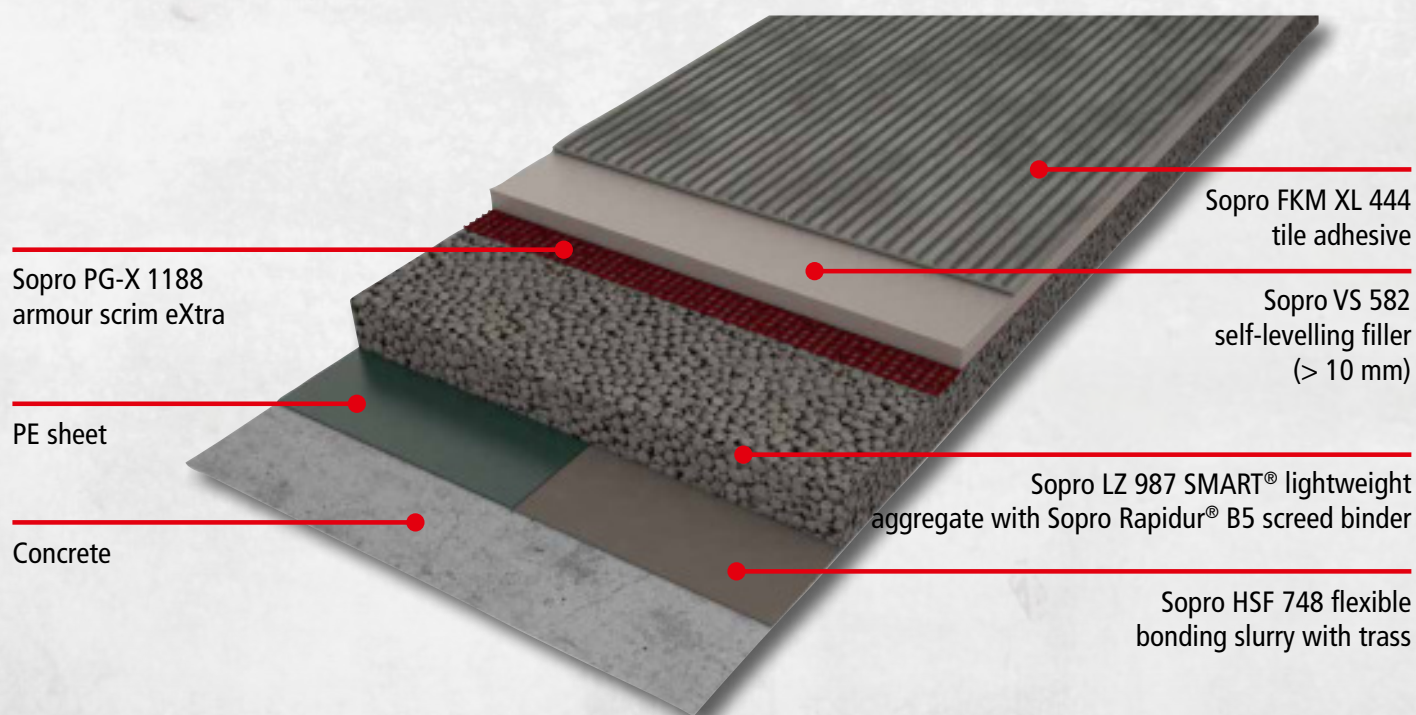


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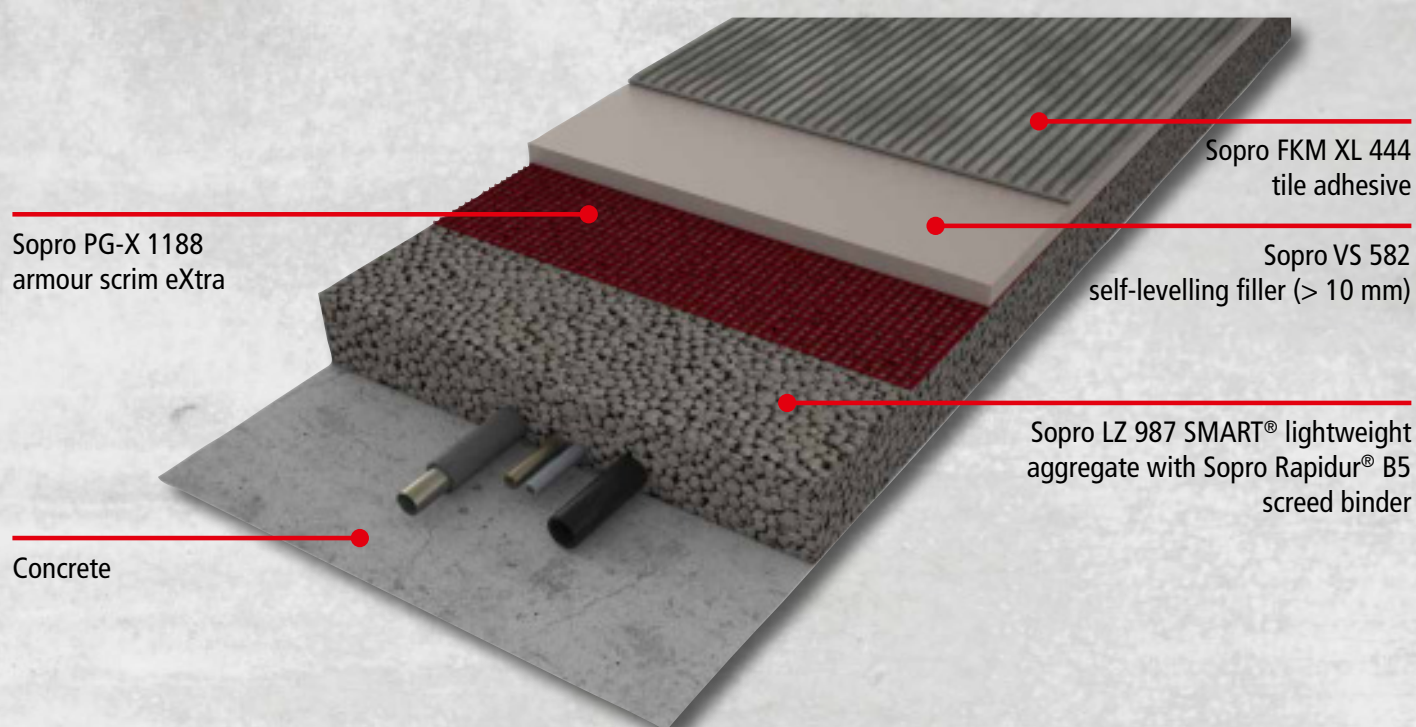
Surface is walkable and ready to receive ceramic covering after approx. 3 hours.

²⁾ To achieve strong bond and interlock between self-levelling filler and Sopro SMART® light levelling layer, filler penetrates slightly into top part of this layer. This extra material must be factored into consumption rate calculations.

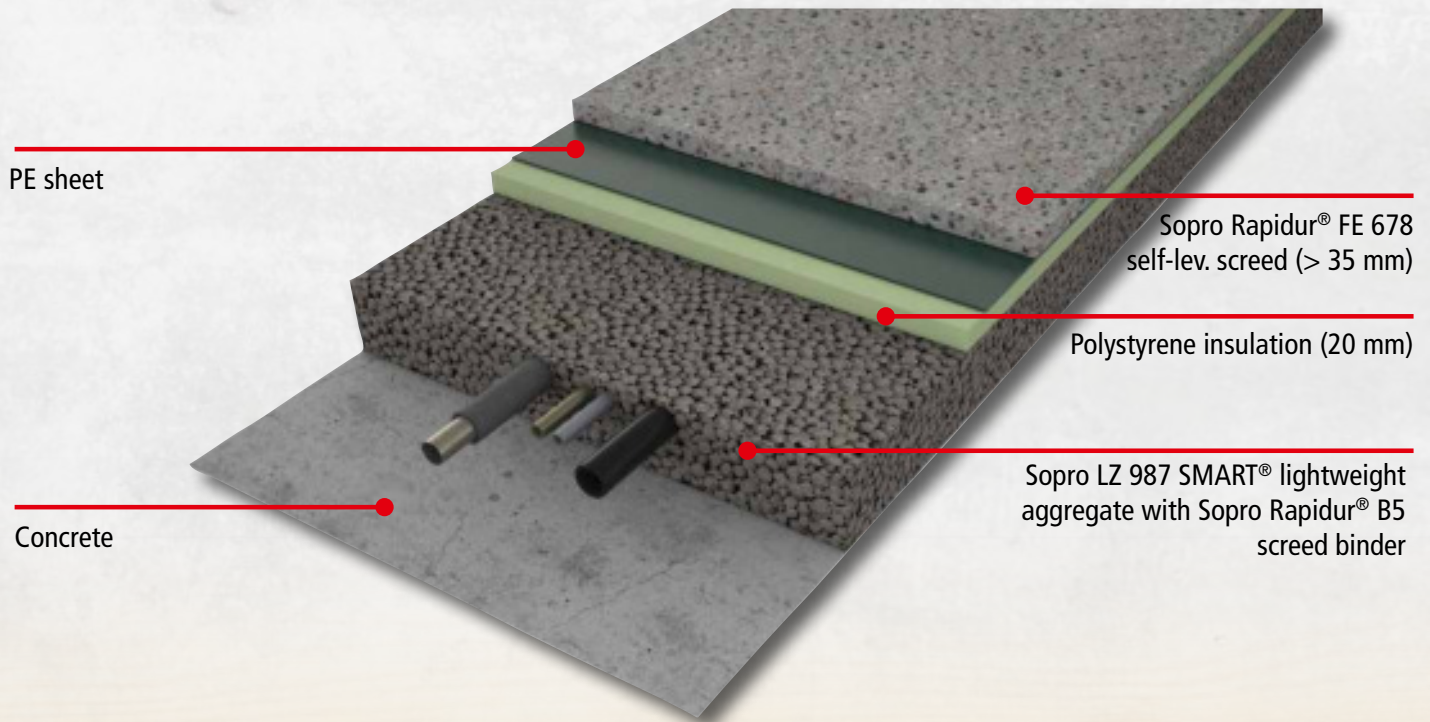
Sopro SMART® system on separating layer or for bonded construction



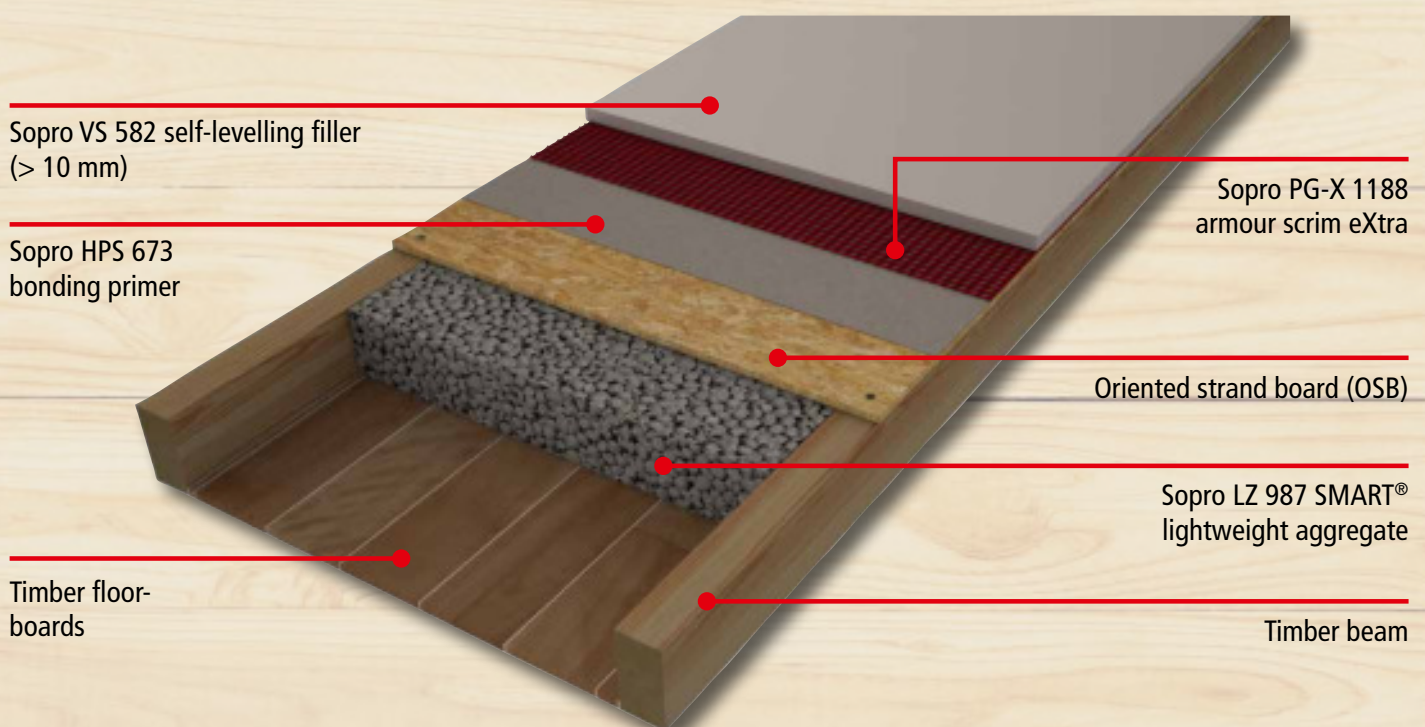
Sopro SMART® system for levelling with pipes



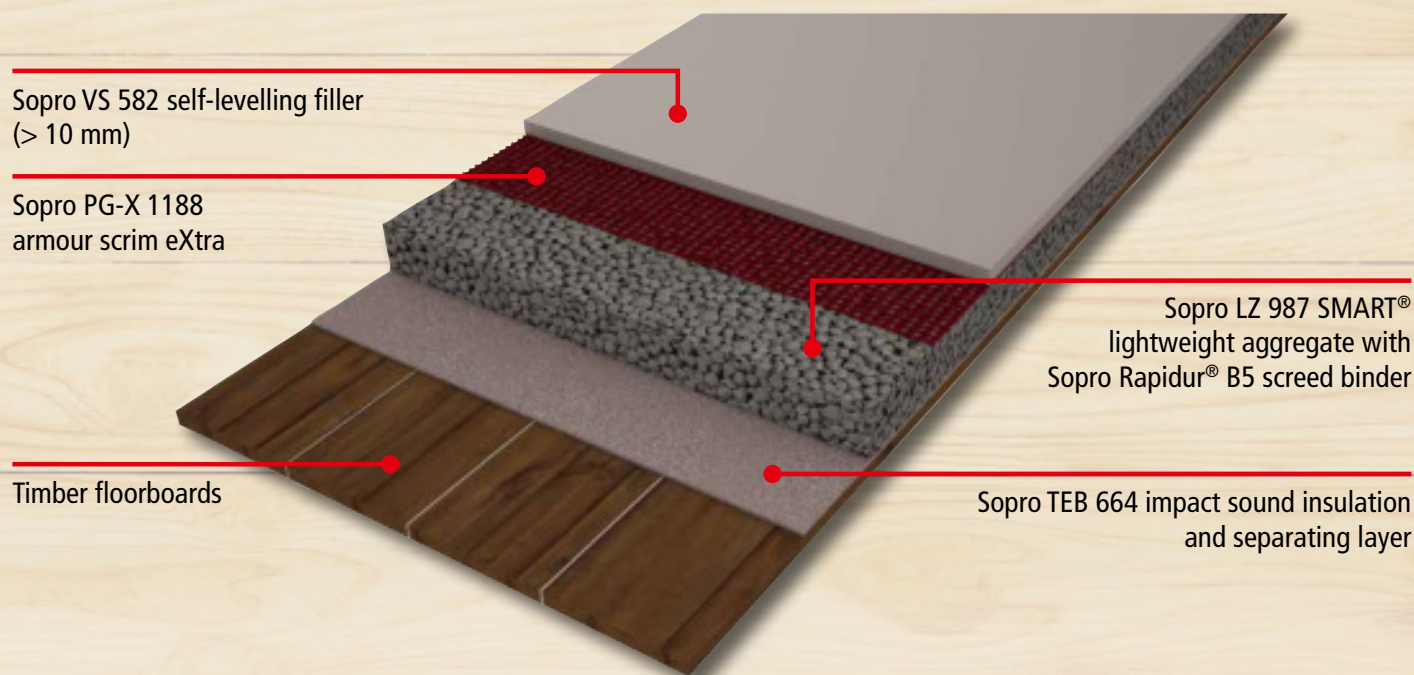
Sopro SMART® for lightweight levelling with pipes and floating screed



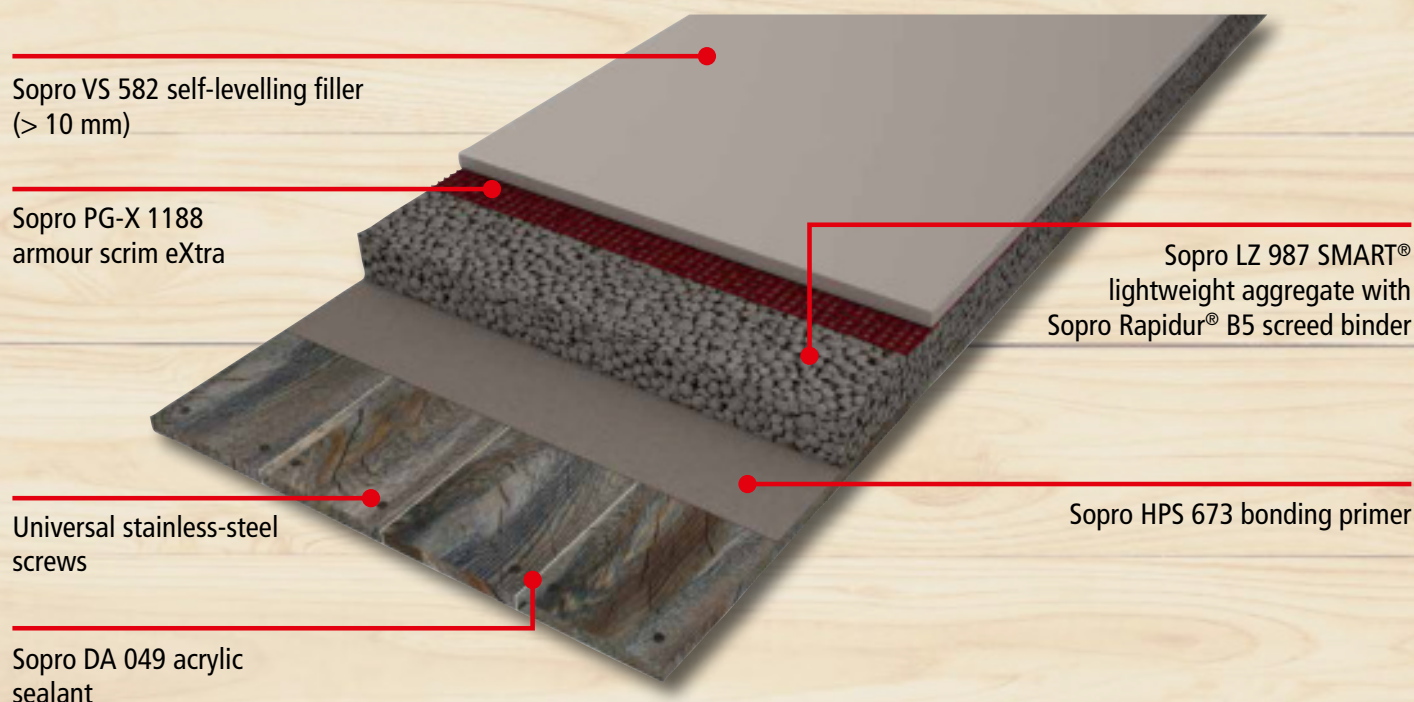
Sopro LZ 987 SMART® lightweight aggregate as loose fill for sound insulation



Sopro SMART® system with impact sound reduction



Sopro SMART® system on uneven timber flooring



Sopro SMART® system components

Sopro LZ 987 SMART® lightweight screed aggregate



- **Mineral-based**
- High compressive strength
- **For low area loads**
- Ideal for refurbishment/renovation contracts
- **As alternative to board subfloor systems**
- **Non-combustible**
- Moisture-resistant and permanently dimensionally stable
- Offering thermal and sound insulation
- For levelling between pipes
- Overcoatable: after approx. 12 hours in conjunction with Sopro Rapidur® B5 rapid-set screed binder
- **Pumpable**



Sopro Rapidur® B5 rapid-set screed binder



- **Ready for tiling: after approx. 3 days**
(depending on mixing ratio and site conditions)
- Ready to receive particularly impervious floor coverings, e.g. linoleum or PVC, and wood or parquet flooring after 3–5 days or after achievement of residual moisture content $\leq 2.0\%$ CM (unheated) and $\leq 1.8\%$ CM (heated)
- **Long working life: 2–3 hours**
- Walkable: after 7–8 hours
- Suitable for floor heating systems, pumpable
- For indoor and outdoor use
- Low-chromate to Regulation (EC) No 1907/2006, Annex XVII



Sopro PG-X 1188 armour scrim eXtra



- For walls and floors, indoors and outdoors
- **Additional reinforcement for extra impact strength and displacement resistance**
- **For improved crack-bridging performance and stress relief**
- Strong adhesion to other Sopro products
- Long-term alkali resistance
- **High temperature resistance, low flammability**



Sopro VS 582 self-levelling filler



- **Coat thickness: 3–70 mm³⁾**
- For floors, indoors and outdoors
- 2-in-1 formulation: suitable as self-levelling filler and for laying to falls
- **Self-levelling**
- **Ready to receive ceramic covering: after 2–3 hours**
- Quick-drying
- **Highly flexible through fibre reinforcement**
- **Suitable for timber flooring**
- Pumpable
- Suitable for floor heating systems
- **Long working life: 30–40 minutes**
- Low-chromate to Regulation (EC) No 1907/2006, Annex XVII



³⁾ Up to 70 mm in bonded construction.

Sopro

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bringing european innovation

smet

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