

FLOWPLUS

By ARDEX

Next Generation Cementitious Liquid Screed



KNOPP





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FLOWPLUS makes screed production straightforward – liquid admixture, local materials, proven results.

ARDEX and Germany's screed specialists KNOPP have teamed up to bring you FLOWPLUS – a liquid admixture that's been trusted across Europe for over 12 years. Now it's here to make your life easier.

FLOWPLUS creates flowing cement screeds with minimal shrinkage (300-500µm/m) and exceptional smoothness, with no curing agents needed under normal conditions. It also doubles as an additive for external self-compacting screeds, just protect with KNOPP MTC Curing Agent and you're covered.



Why batching plants are switching to FLOWPLUS:

- + **Works with what you've got.** Your local sand, cement and fillers work perfectly with FLOWPLUS. No need to source special materials or change suppliers.
- + **No infrastructure headaches.** No need for extra silos or complex powder handling systems. FLOWPLUS is a liquid additive that's ready to use in IBCs. Just hook it up and you're ready to go. Simple as that.
- + **Here's what sets us apart:** When your customers combine FLOWPLUS screeds with ARDEX finishing products, they get our 10-year system warranty. That's a proper selling point when they're pitching for work.
- + **Plus, you're not on your own with this.** Our technical team will be there from day one – helping with setup, fine-tuning mix designs, and training your operators. No extra charges, no surprises.

+ Features & Benefits



ALL IN ONE

Carefully engineered to incorporate all the necessary components for exceptional screed performance.



QUICK & SIMPLE INSTALLATION

Cover larger areas in less time, significantly increasing your productivity. With up to 1,000 m² per day with a crew of three.



LAB TESTED

Customised initial type testing by ARDEX labs. We'll make sure you get the perfect design mix for your project.



USE LOCAL MATERIALS

Designed to be used with your local aggregates, fillers and cements, saving on transport costs and CO₂ emissions.



NO CURING NEEDED

No additional curing necessary under standard conditions. Meaning no covering foil or extra work spraying a curing admixture.



SUITABLE FOR WET AREAS

Suitable for internal dry, and wet areas such as wet rooms, plant rooms and bathrooms etc.



UNDERFLOOR HEATING

Provides full encapsulation of heating pipes, improving thermal conductivity over traditional, semi dry screeds.



Achieves A+ criteria for sustainability and extremely low VOC's to ISO 16000 standards.

+ Mix Design

MIXING MODEL FOR 1M³

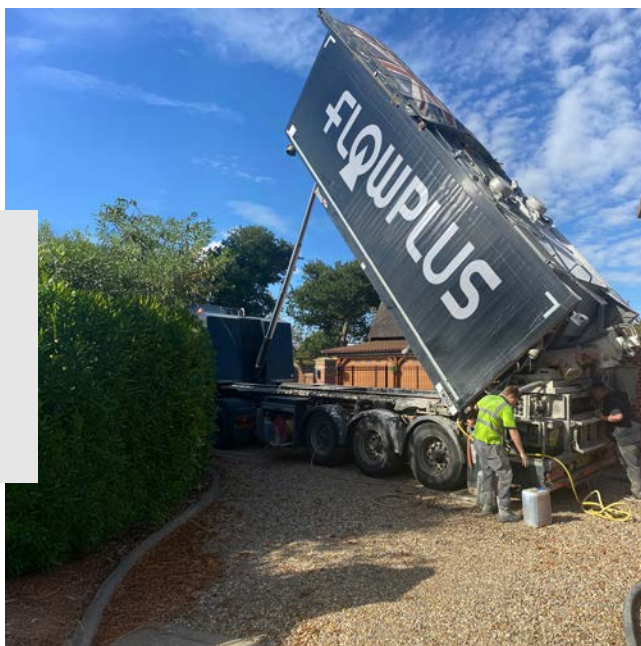
Application	Concrete batching plants or mixing mobiles.
Cement	300kg
Filler (Limestone)	260kg
Sand/Aggregate	1,300kg (<8mm)
Water	280 litres
FlowPlus Admixture	10kg
Water-Cement Ratio	Maximum of approx. 0.9
Flow	210mm to 240mm
Strength	CT-C20-F4 to CT-C30-F6
Pull-up Strength	Approx. 1.0 N/mm ²
Shrinkage	Approx. 0.3 – 0.5 mm/m
Fire Rating	Class A1
Thermal Conductivity	Minimum of 1.8W/mK
Workability Time	Typically 2 hours after batching
Wet Density	Approx. 2.20kg/litre

Note, the above shows a typical mix design, the exact ratios are calculated after material testing.



BATCHING PLANTS

No additional silos needed, FLOWPLUS integrates directly with your existing sand, cement, limestone filler and water systems. Simply pump the liquid admixture from the supplied IBC into your standard batching sequence at 10kg per m³.



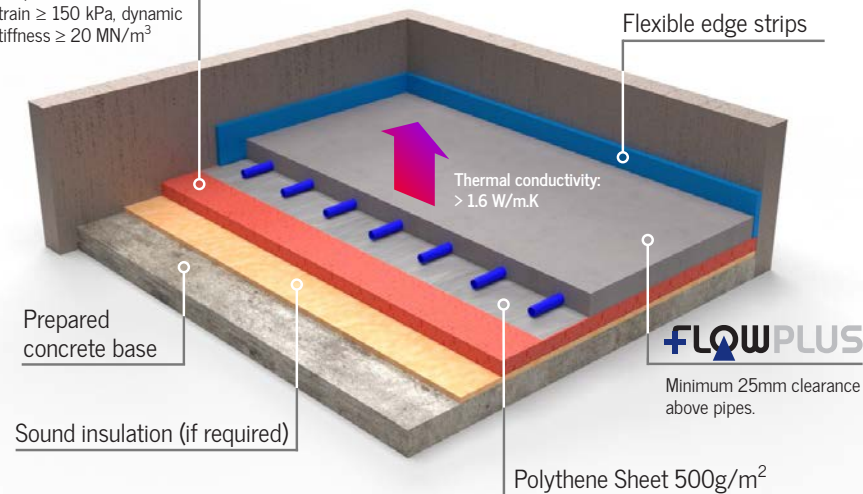
MOBILE BATCHING TRUCKS

FLOWPLUS works seamlessly with Transmix, Bremat and Overmat trucks equipped with dosing pumps.

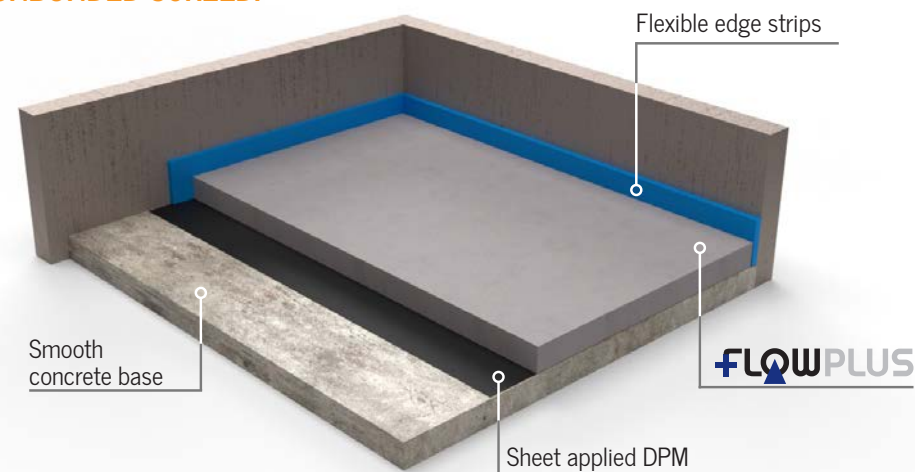
FLOATING SCREED WITH UFH:

Thermal Insulation

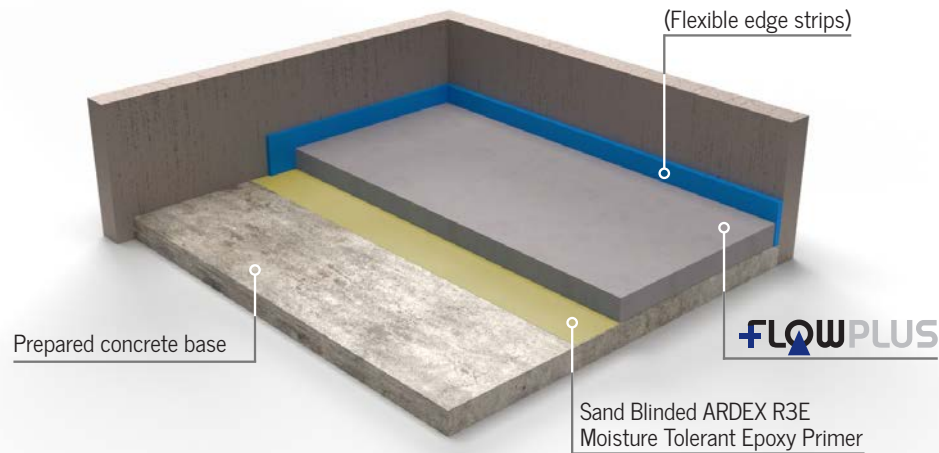
Compressive stress at 10% strain ≥ 150 kPa, dynamic stiffness ≥ 20 MN/m³



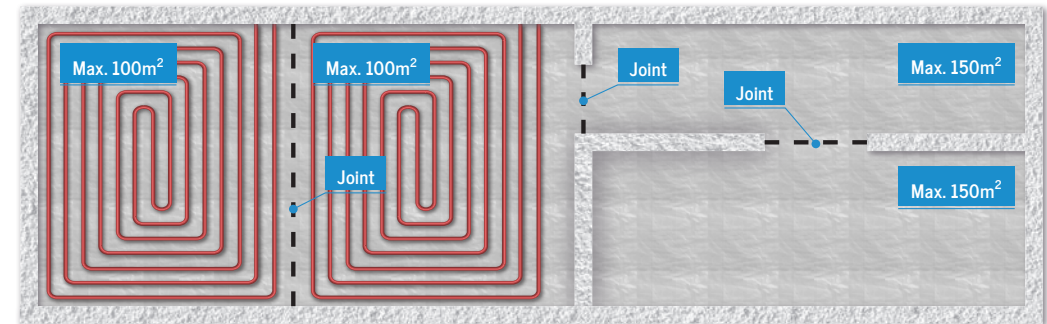
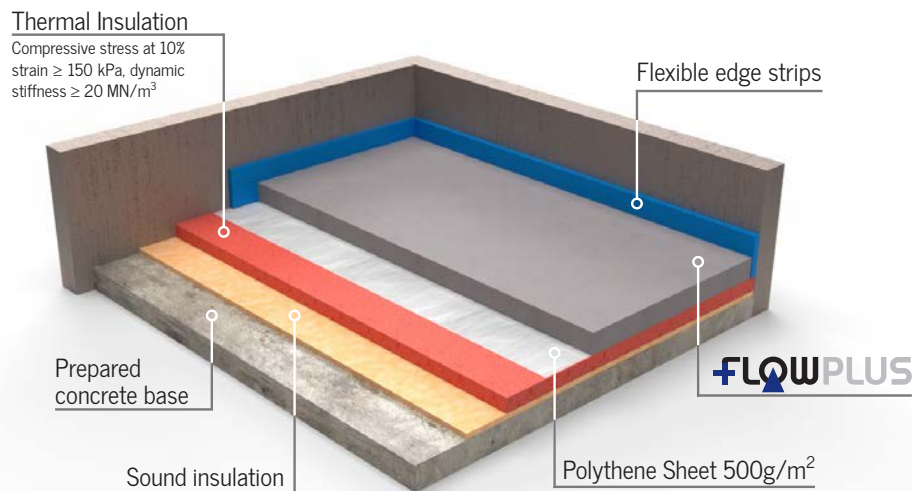
UNBONDED SCREED:



BONDED SCREED



FLOATING SCREED:



	THICKNESS		BAY SIZE
	Domestic:	Commercial:	Max. Bay Size
Floating on insulation	≥ 40 mm	≥ 50 mm	≤ 150 m ²
Unbonded on Polyethylene	≥ 40 mm	≥ 45 mm	≤ 150 m ²
Underfloor Heating	25mm above pipes	30mm above pipes	≤ 100 m ²
Bonded Thickness	≥ 20 mm	≥ 20 mm	≤ 150 m ²

Key Requirements:

- Install movement joints between all bays and heating zones (as shown above)
- Use edge strips against all vertical structures (5-8mm)
- Position joints based on final floor finish – consult relevant British Standards

Remember: Each independently controlled heating circuit requires separation. Areas of high thermal gain need additional joints.

+ Drying Times

DRYING AND RH VALUES

Residual humidity of the screed:	Drying period:
3.0 CM-%	Approx. 14 days
2.0 CM-%	Approx. 28 days



The specified values above apply for 50mm screed thickness at normal climatic conditions of +20°C and a relative humidity of 65%.

3.0 CM-% = suitable for non-resilient flooring

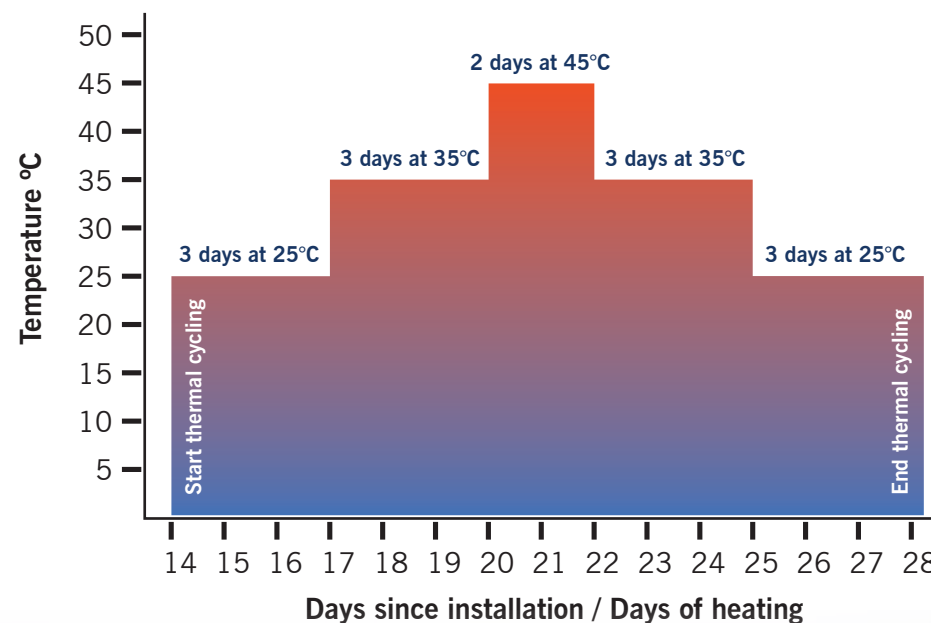
2.0 CM-% = suitable for resilient flooring

As determined by the carbide bomb test. Check with floorcovering manufacturers for exact CM-%



+ Commissioning Underfloor Heating

Underfloor heating commissioning starts from day 14 onwards, following the controlled thermal cycle below. Water temperature mustn't exceed 45°C, and the complete cycle must finish before installing any floor coverings.





FORMULATION SUPPORT

We test your locally sourced cement, sand and fillers to ensure the mix gets the results you need.



SITE SUPPORT

We can help you with site assessments, offer one to one support and general guidance to help achieve the best from your projects.



SPECIFICATION SUPPORT

The ARDEX Specification Team can provide advice on specifications, not only about screeds but complete flooring and tiling systems.



TECHNICAL ADVICE

We're on hand to offer advice and product recommendations in line with British Standards codes of practice.

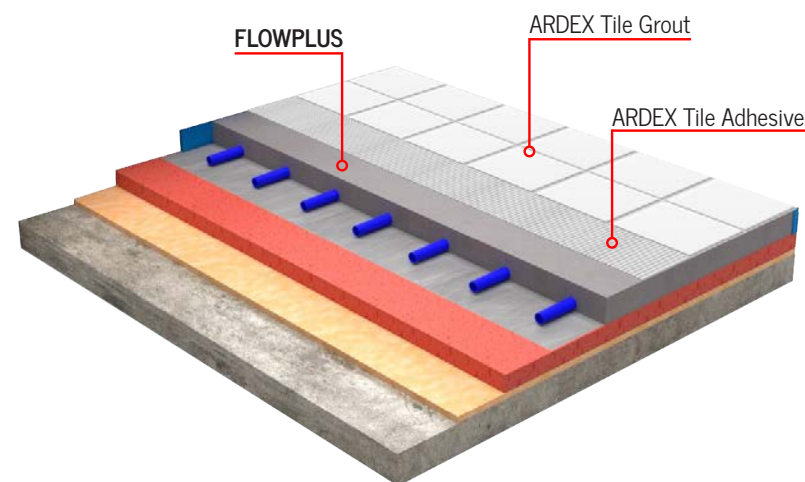


ON SITE TESTING

Our team is available to perform on-site testing such as the BRE ISCR test, or subsequent moisture testing to judge the screed readiness to receive final flooring.



Install with certainty, use FLOWPLUS and ARDEX finishing products together for a full 10-Year System Warranty.



Beyond the Screed – Your Complete Building Solution

ARDEX isn't just about screeds. As the UK's flooring specialists, we supply everything you need for professional installations:

1. Smoothing & Self Levelling Compounds
2. Damp Proof Membranes & Waterproofing
3. Flooring & Tile Adhesives
4. Concrete Repair Mortars
5. Tile Grouts & Silicones
6. Primers, Admixes & Ancillaries
7. Specialist Plasters & Render Finishes





Building tomorrow

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