ARDEXGROUP

High Performance Screeding Products

ARDEX + KNAPP

Building excellence from the ground up

RAPID DRYING SCREED CEMENTS | HIGH PERFORMANCE SCREED ADDITIVES
BONDING AGENTS | SCREED REPAIR AND RENOVATION

For over 70 years, ARDEX has been a leading manufacturer of high quality building products,

consistently delivering innovative solutions that enable contractors and screed layers to complete projects quickly, easily and to the highest standards.

With a commitment to uncompromising quality and customer-focused innovation, ARDEX has remained at the forefront of the UK construction industry, offering products designed to work together seamlessly. ARDEX's comprehensive range includes ultra-rapid drying screeds, and screed additives for both liquid cement and semi-dry screeds.

ARDEX rapid drying screed cements incorporate RAPIDRY FORMULA TECHNOLOGY, which binds the water used for mixing within the cement, ensuring rapid drying, minimal shrinkage and rapid strength development, regardless of thickness.

While traditional sand/cement and anhydrite screeds can take months to dry at a rate of 1mm per day, ARDEX rapid drying screeds can be walked on in as little as 3 hours and floorcoverings can be installed in as little as 4 hours.

In addition to the semi-dry screed range, ARDEX now offers two revolutionary screed additives that expand the possibilities for contractors and screeders. ARDEX FLOWPLUS, an all-in-one liquid cement screed additive, produces a superior cement-based flowing screed with minimal shrinkage, exceptional smoothness, and eliminates the need for additional curing agents. Designed to work in harmony with locally sourced materials, FLOWPLUS optimises project efficiency and sustainability.

For semi-dry screeds, KNOPP CONTOPP Ultimate 4 Screed Additive produces a fast drying, high strength, and versatile screed capable of low thicknesses (from 20mm bonded and 30mm unbonded). Trust ARDEX's innovative screed solutions to take your projects to the next level.

ARDEX

Building tomorrow

bsi. ISO 9001 Quality Management · ISO 14001 Environmental Management · ISO 45001 Occupational Health and Safety Management

Reg No. FM 01207 EMS 565427 OHS 628374

NBS Source PARTNER · bre · BASA · CONCRETE SOCIETY · FLOWING SCREEDS ASSOCIATION

ARDEX SCREED RANGE

	FORM & STRENGTH			DEPTHS				TIMINGS					CONSUMPTION		
	FORM	SCREED TYPE	STRENGTH	BONDED	UNBONDED	FLOATING	UFH CLEARANCE	WALKABLE	BRE TEST	COMMISSION UFH	TILE	RESILIENT FLOORING	CONSUMPTION PER M3	UNIT SIZES	
ARDEX A 29	Powder	Semi Dry	C40(1:5) C30(1:7)	20mm(1:5) 25mm(1:7)	50mm	65mm/ 75mm	25mm	8 Hours	24 Hours	7 Days	From 24 Hours	7 Days	270kg (14 bags)	20kg	ARDEX A 29
ARDEX A 38	Powder	Semi Dry	C45-F5	15mm	50mm	65mm/ 75mm	25mm	3 Hours	6 Hours	3 Days	4 Hours	48 Hours	310kg (13 bags)	25kg	ARDEX A 38
ARDEX A 38 MIX	Powder	Semi Dry	C40-F5	15mm	40mm	65mm/ 75mm	25mm	3 Hours	6 Hours	3 Days	4 Hours	48 Hours	1,850kg (74 bags)	25kg	ARDEX A 38 MIX
ARDEX FLOWPLUS	Ready-Mixed Screed	Liquid Cement	C20-F4 to C30-F6	20mm	30mm/ 40mm	40mm/ 50mm	25mm	24-48 Hours	28 Days	14 Days	14 Days	28 Days	10kg	$1m^3$+	ARDEX FLOWPLUS
CONTOPP ULTIMATE 4	Liquid Additive	Semi Dry	C40-F7 (1:5 Mix)	From 15mm	30mm	35mm/ 40mm	25mm	24 Hours	4 Days	24 Hours	48 Hours	3 Days	2.6-3kg	20kg Jerrycan	CONTOPP ULTIMATE 4

Note: Timings and consumption values reference typical mix ratios, see datasheets for details.

FLOWPLUS By ARDEX

Next Generation Liquid Cement Screed

FLOWPLUS creates a superior cement-based flowing screed that offers minimal shrinkage, exceptional smoothness, and removes the need for curing agents. This innovative all-in-one product is designed to work perfectly with underfloor heating systems offering full encapsulation, and maximising heat transfer. It also offers huge productivity gains where a crew of 3 can lay in the region of 1000m² per day.

FLOWPLUS is available from local ready-mix plants and mobile batching plants. Scan QR code for suppliers in your area:

- Reduced shrinkage (300–500 µm/m).
- Walkable in 24-48 hours.
- Approx. 3 hours working time.
- Strength options from CT-C20-F4 to CT-C30-F6
- No additional curing agents needed under standard conditions.
- Low laitance.
- Improves thermal conductivity with full encapsulation of heating pipes.
- Fast installation: A crew of 3 can typically install 1,000m² per day.
- Achieves A+ criteria for sustainability and extremely low VOCs to ISO 16000 standards.
- Suitable for internal wet areas.

EXTENDED WORKING TIME

VERY LOW SHRINKAGE

LOW LAITANCE

FULL UFH PIPE ENCAPSULATION

NO CURING NEEDED

DRYING TIMES

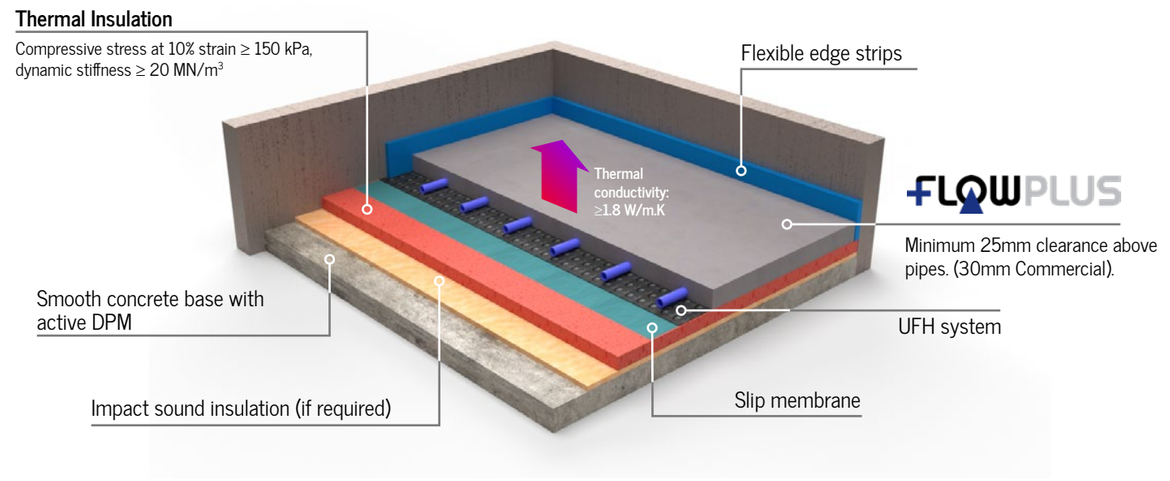
Residual humidity of the screed:	Drying period:
3.0 CM-%*	Approx. 14 days
2.0 CM-%* (Suitable for resilient flooring)	Approx. 28 days

*As determined by the carbide bomb test. The specified values above apply for 50mm screed thickness at climatic conditions of +20°C and a relative humidity of 65%.

THICKNESS

	Domestic:	Commercial:
Load	2.0 kN/m²	3.5 kN/m²
Floating on insulation	≥ 40mm	≥ 50mm
Unbonded on Polyethylene	≥ 30mm	≥ 40mm
Underfloor Heating	25mm above pipes	30mm above pipes
Bonded Thickness	≥ 20mm	≥ 20mm

TYPICAL BUILD UP WITH UNDER FLOOR HEATING PIPES



ULTIMATE 4

High Performance Accelerator for Sand & Cement Screeds

KNOPP CONTOPP Ultimate 4 Screed Additive transforms your standard sand and cement mix into a quick-drying, high-strength screed that's ready for tiling in as little as 48 hours. With depths from 20mm and C40-F7 strength, it's perfect for bonded, unbonded, floating and UFH systems both inside and out.

- High strength: up to CT-C40-F7.
- Quick drying: Walkable from 24 hours, fix tiles from 48 hours, resilient flooring from 4 days.
- Apply from 20mm bonded and 30mm unbonded.
- Commission UFH after just 24 hours.
- Consumption: Approx. 2.5-2.8 litres per cube (M^3) of screed or 500ml per 63kg of cement.
- Available in 20kg jerrycans.
- Suitable for wet areas including swimming pools.

Choose from three different mix designs to match your project's exact needs. Whether you're after high strength (1:5), standard strength (1:6) or a more economical option (1:8), you'll still get a 4-day drying time (at 50mm), so you won't lose any speed on site.

INTERNAL AND EXTERNAL USE

PUMPABLE

2.8kg per M^3

20kg JERRY CAN

GEV-EMICODE EC 1 PLUS very low emission

MINIMUM DEPTHS (1:5 MIX)

Bonded	15mm (20mm Commercial)
Unbonded	30mm (35mm Commercial)
Floating Domestic/ Commercial	35mm/40mm
UFH Clearance	25mm

TIMINGS

Working Time	2 Hours
Walkable	24 Hours
BRE Test	4 Days
Tile From:	48 Hours
Resilient Flooring From:	3 Days
Commission UFH From:	24 Hours

Typical Mix Designs Per 100L

MIX:	**1:5 CT-C40-F7**	**1:6 CT-C30-F5**	**1:8 CT-C20-F4**
Sand:	158 kg	150 kg	160 kg
Cement:	32 kg	25 kg	20 kg
Water:	16 kg	14 kg	12 kg
Ultimate 4:	250ml	250ml	250ml

Note: All mix quantities are based on fresh, uncompacted semi-dry mortar and may vary depending on sand density. Water requirements shown are typical for semi-dry mortar consistency, but may vary depending on your specific sand and cement. We recommend that you test the mix on site with your materials before commencing work.

ARDEX A 38

Ultra Rapid Drying Cement for Internal & External Screeds

ARDEX A 38 has been used extensively on the London Underground and on projects where fast turnaround is essential.

ARDEX A 38 produces ultra-rapid drying floor screeds which can be walked on after just 3 hours, and have floorcoverings installed in as little as 4 hours, regardless of thickness. After just one day, achieves the acceptable minimum compressive and tensile bending strengths attained by an ordinary cement screed after 28 days. This means you can confidently hand over areas to finishing trades without worrying about damage. And because it works internally and externally, even in wet areas, you can standardise on one product across your projects.

ARDEX A 38 is ideal when fast project turnarounds are needed. Used successfully for over 20 years on iconic projects across the world, ARDEX A 38 is a proven solution for fast-track screeding without compromise.

- Walk on after 3 hours.
- Receives ceramic and natural stone tiles directly after only 4 hours.
- Install carpet, wood and vinyl floorcoverings after 48 hours.
- Maintains a working time of 1 hour.
- High strength: up to CT-C45-F5.5.
- Passes BRE Screed (ISCR) Testing after 6 hours.
- For internal and external use, including wet and submerged areas.
- Can be used with underfloor heating systems.
- Can be pumped for fast application

RAPIDRY PLUS FORMULA

GEV-EMICODE EC 1 PLUS very low emission

INTERNAL AND EXTERNAL USE

PUMPABLE

310kg per M^3 (13 bags @1:5)

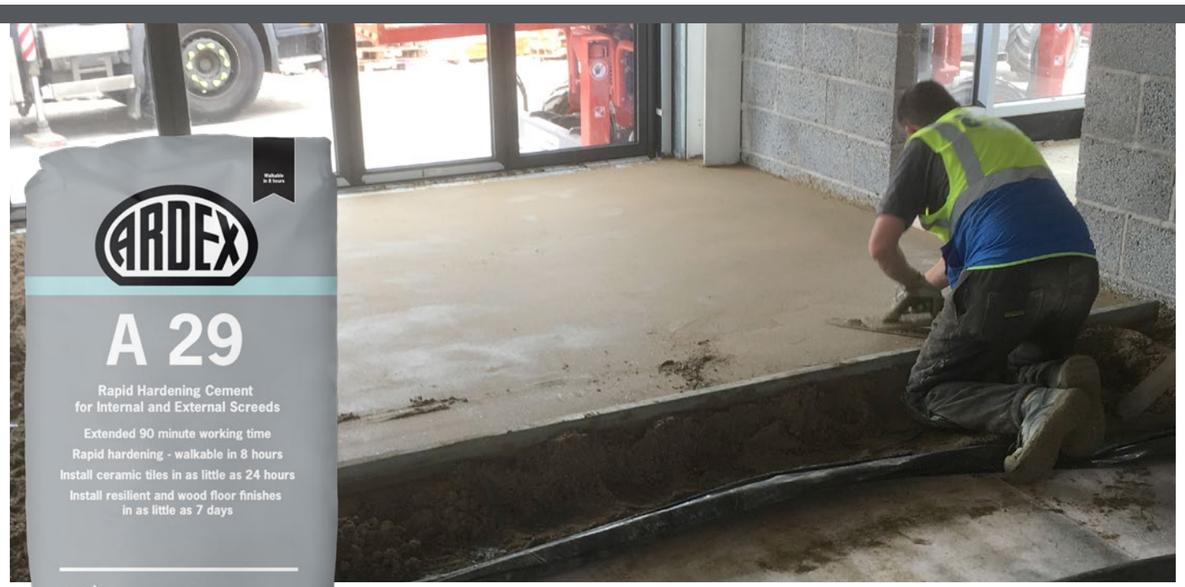
25kg BAGS

MINIMUM DEPTHS	
Bonded	15mm
Unbonded	50mm
Floating Domestic/ Commercial	65mm/75mm
UFH Clearance	25mm

TIMINGS	
Working Time	1 Hour
Walkable	3 Hours
BRE Test	6 Hours
Tile From:	4 Hours
Resilient Flooring From:	48 Hours
Commission UFH From:	3 Days

ARDEX A 29

Rapid Hardening Cement for Internal & External Screeds



ARDEX A 29 Rapid Hardening Cement for Internal and External Screeds is meticulously engineered for UK site conditions, offering unparalleled benefits to professional contractors. This innovative formulation combines superior workability, rapid setting, and outstanding performance. **ARDEX A 29** enables the efficient creation of high-quality, durable floor screeds for both residential and commercial projects, reducing project timelines without compromising quality.

- Offers outstanding performance at a reliable and economical 1:7 mix
- 90 minute working time.
- Walkable after 8 hours.
- Passes the BRE Screed (ISCR) Test in as little as 24 hours.
- Install ceramic tiles in as little as 24 hours and natural stone after 7 days.
- Install resilient and wood floor finishes in as little as 7 days.
- Apply as a bonded, unbonded or floating screed.
- Can be used with underfloor heating systems.
- For internal and external use, including wet areas.

RAPIDRY PLUS FORMULA

GEV-EMICODE EC 1 PLUS very low emission

INTERNAL AND EXTERNAL USE

PUMPABLE

270kg per M^3 (14 bags @1:7)

20kg BAGS

MINIMUM DEPTHS	
Bonded	20mm
Unbonded	50mm
Floating Domestic/ Commercial	65mm/75mm
UFH Clearance	25mm

TIMINGS	
Working Time	1.5 Hours
Walkable	8 Hours
BRE Test	24 Hours
Tile From:	24 Hours
Resilient Flooring From:	7 Days
Commission UFH From:	7 Days

ARDEX K 71

Rapid Drying Industrial Topping and Wearing Surface

ARDEX K 71 is a premium, self-levelling industrial floor compound engineered for upgrading and renovating both new and existing internal floors in light to heavy-duty applications. This versatile product serves as both a durable wearing surface and a reliable base layer, capable of receiving a wide range of surface finishes including suitable resin coatings, tiles, and natural stone. Whether hand-mixed for smaller areas or pump applied for larger projects, **ARDEX K 71** offers exceptional durability and fast drying properties, making it ideal for use in commercial and industrial environments where fast turnaround times are essential.

- ✚ Rapid drying and hardening for quick turnaround times.
- ✚ High strength and wear resistance (AR0.5).
- ✚ Suitable for light to heavy-duty industrial applications.
- ✚ Can be left as a wear layer or used as a base for resin coatings.
- ✚ Low shrinkage for reduced cracking and improved dimensional stability.
- ✚ Can be used with underfloor heating systems.

INTERNAL USE

1,780kg per M^3 (72 bags)

25kg BAGS

ARDEX K 71 + PU 30 Primer System

Prime
1-part ARDEX PU 30 is dry and walkable from 60 minutes.

▶

Level
Pump or hand apply ARDEX K 71 from 3-30mm neat.

▶

Walk
Walk on from 2 hours. (Apply resins/coatings from 12 hours).

Easier..

No two-part resin to mix, no short pot life to work against, nothing to discard at the end of the day. PU 30 is ready to use straight from the tub.

No mixing, no measuring, no waste, and walkable in 60 minutes.

Smarter..

Damp substrate? ARDEX PU 30 also controls residual construction moisture - one coat to 90% RH, two coats to 98% RH. (Above an existing effective structural DPM).

Plus it encapsulates problematic lignite, so the topping bonds to a sound surface.

Economical..

The cost of a two-part epoxy isn't just the tub. It's the mixing time on every unit, the hours spent waiting before the topping can go down, and the leftover resin that has to be thrown away.

PU 30 has none of those. Use straight from the tub, and resealable for the next job.

PRE-BLENDED SCREEDS & BONDING CEMENT

ARDEX A 38 MIX
Pre-Blended Ultra Rapid Drying Cement for Internal & External Screeds

Pre-blended with graded sand for convenience. Ideal for screeding in locations where access is limited. Conforms to EN 13813 CT-C40-F5.

+ Walkable from 3 hours
+ Install tiles after only 4 hours
+ Install carpet, wood and vinyl floorcoverings after 48 hours

Timings	
Working Time	1 Hour
Walkable	3 Hours
BRE Test	6 Hours
Tile From:	4 Hours
Resilient Flooring From:	48 Hours
Commission UFH From:	3 Days

Minimum Depths	
Bonded	15mm
Unbonded	40mm
Floating Domestic/ Commercial	65mm/75mm
UFH Clearance	25mm

RAPIDRY PLUS FORMULA

GEV-EMICODE EC1 PLUS very low emission

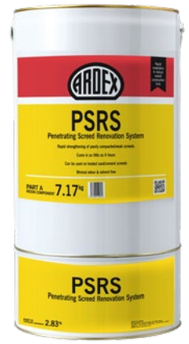
PUMPABLE

INTERNAL AND EXTERNAL USE

1850kg per M^3 (74 bags)

25kg BAGS

SCREED REPAIR & RENOVATION



ARDEX PSRS
Penetrating Screed Renovation System

Strengthens and restores poorly compacted and low strength screeds.

+ Cures in as little as 4 hours
+ Consolidated screeds meet BS 8204 Soundness Category A
+ Low odour and solvent free

ARDEX P10 SR
Rapid Hardening Crack Repair Resin Kit

For the rapid repair and bonding of static non-structural cracks and static joints in concrete and sand/cement screeds.

+ Easy to use, no mixing equipment required
+ Fast setting and load bearing in as little as 20 minutes
+ Can also be used as an adhesive to fix metal profiles, carpet grippers etc.

ARDEX A 18
Screed Bonding Cement with Colour Indicator

When mixed with water, ARDEX A 18 produces a slurry ideal for bonding ARDEX Screed Cements.

+ Colour change helps prevent applying screed cements into dry bonding slurries
+ Ideal for bonded screeds and daywork joints
+ 60 minute pot life
+ For internal and external use

ARDEX ARDURAPID A 45
Rapid Drying Internal Repair Mortar

Ideal for the rapid repair of internal screeds, concrete and renders.

+ Priming rarely required
+ Receives floorcoverings in as little as 90 minutes, regardless of thickness
+ Shrinkage compensated and crack free

ARDEX A 46
Multi-Purpose Repair Mortar

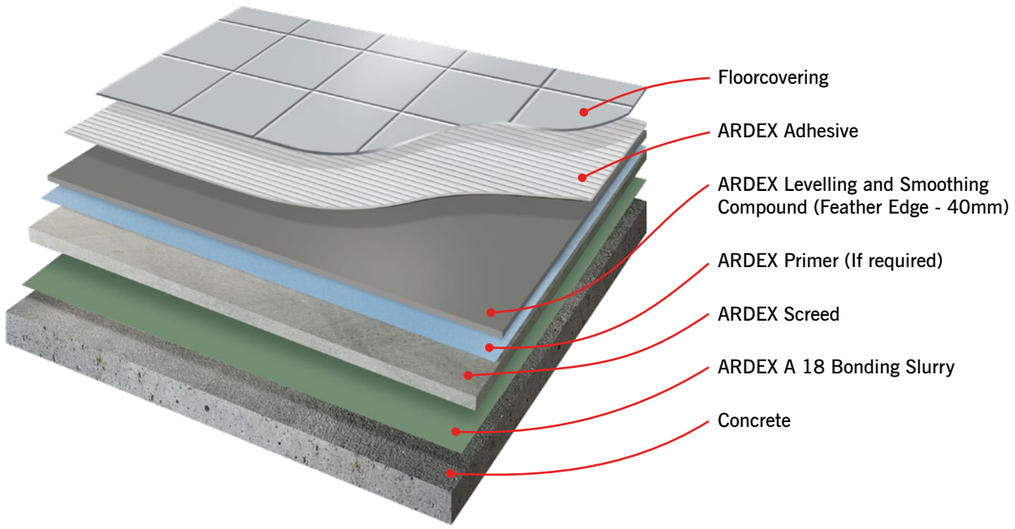
Ideal for the rapid repair of external and internal screeds, concrete and renders. ARDEX A 46 is moisture tolerant, and can be used in wet areas.

+ Priming rarely required
+ Sets in 30 minutes, and floorcoverings can be applied after 4 hours
+ Shrinkage compensated and crack free

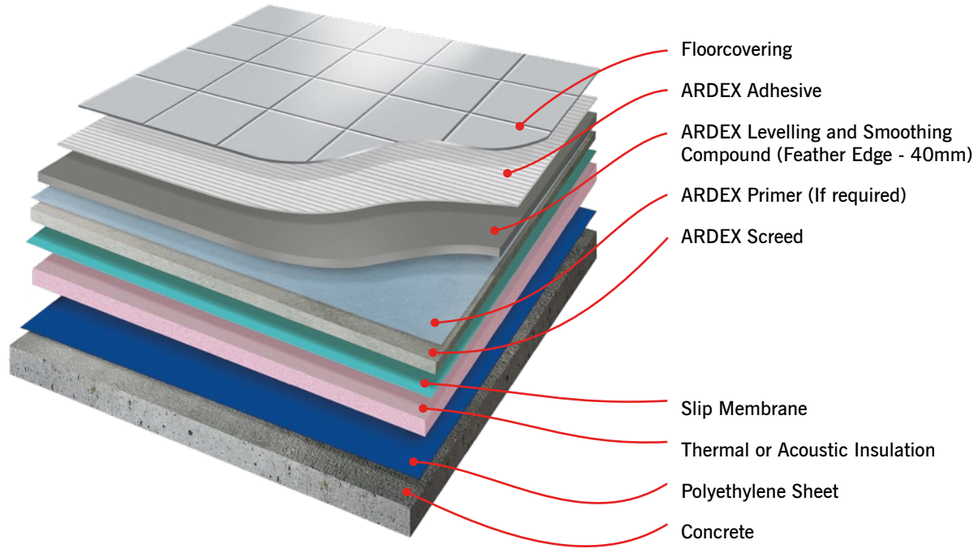
ARDEX SYSTEM

SPECIFICATION DIAGRAMS

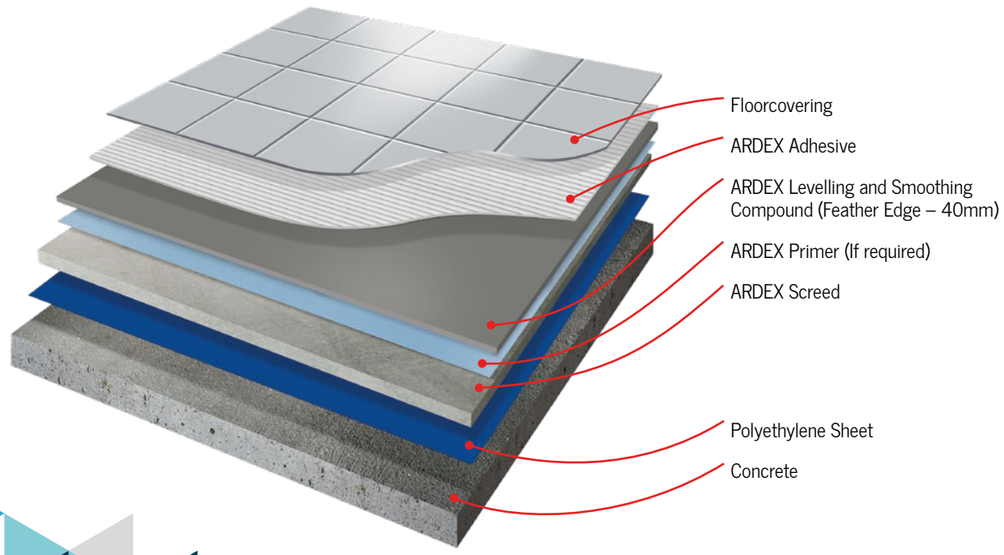
BONDED SCREEDS



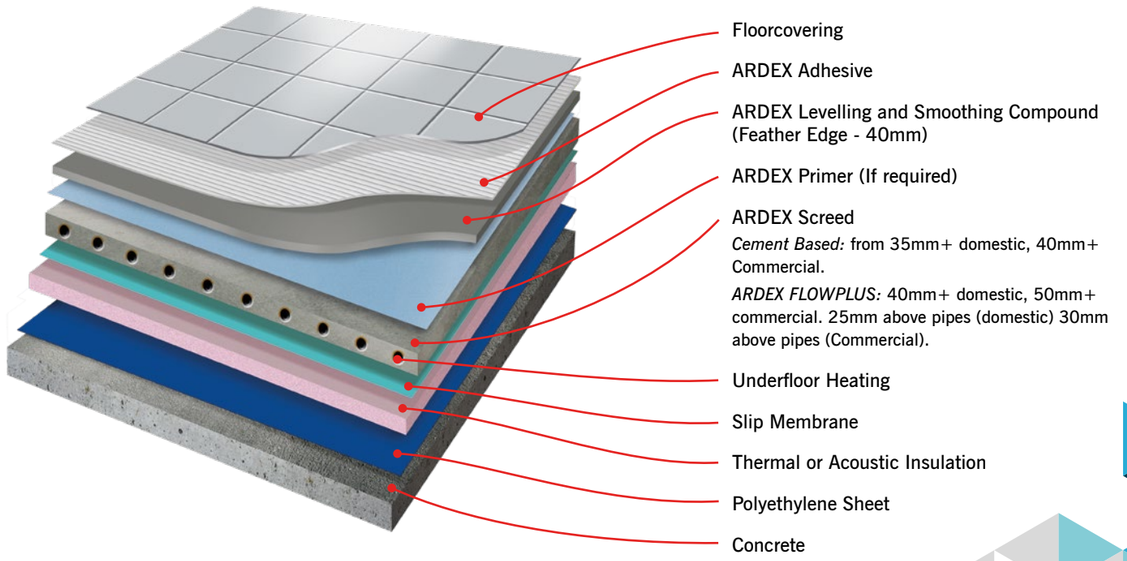
FLOATING SCREEDS



UNBONDED SCREEDS



FLOATING SCREEDS WITH UNDERFLOOR HEATING



SUPPORT

SITE SUPPORT

Our dedicated technical team provides comprehensive site support across the UK, offering invaluable hands-on guidance throughout your project. We'll conduct thorough site assessments to evaluate substrate conditions, consider environmental factors, and identify any potential challenges to help you deliver successful installations whilst maintaining programme efficiency.

SPECIFICATION SUPPORT

The ARDEX National Specification Team works closely with architects, contractors, and specifiers across the UK to develop detailed project specifications that ensure optimal performance and compliance. Whether you're working on a small residential development or a large commercial installation, our team offers expert guidance on the complete ARDEX system, from substrate preparation and screeding through to final floorcoverings.

TECHNICAL ADVICE

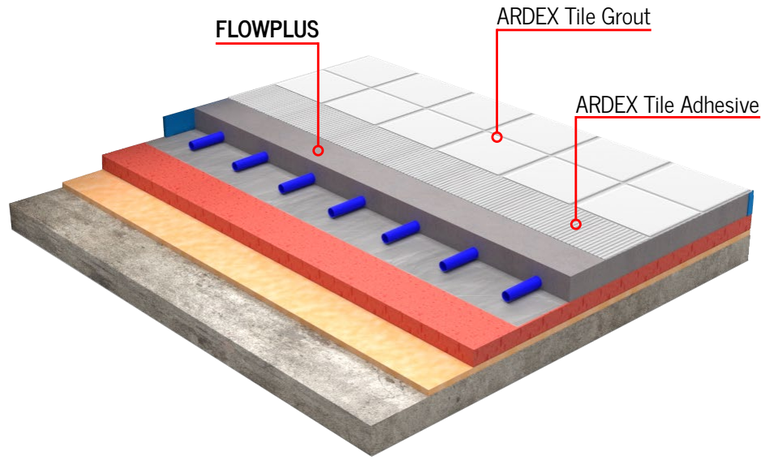
Our technical experts draw on decades of industry experience to ensure your project's success. We can advise on everything from substrate preparation and primer selection to screed thickness and drying times, helping you avoid potential issues and achieve optimal results. All carefully aligned with current British Standards codes of practice and industry regulations.

MIX DESIGNS AND ON SITE TESTING

We'll help optimise mix designs using your local materials, conduct on-site testing such as BRE ISCR and moisture testing, and offer hands-on support during trials and initial applications, to ensure you get the best possible performance from our products on every project.

10 YEAR WARRANTY

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

ARDEX Fast Track Screed Cements

Time Critical Projects

Many clients demand fast turnarounds. From commercial projects in public areas where closures and downtime must be minimised, or where works have overrun and look to make back time to finish on schedule; to the residential sector, where homeowners simply want their projects completed as quickly as possible.

However, most screeds, including traditional sand/cement and anhydrite, can't be walked on for days, and require months of drying before any floor finishes can be installed. With on-site conditions and thicker applications slowing drying rates further, the screed can often delay the completion of the entire project.

Rapid Drying, Minimum Shrinkage, Rapid Strength

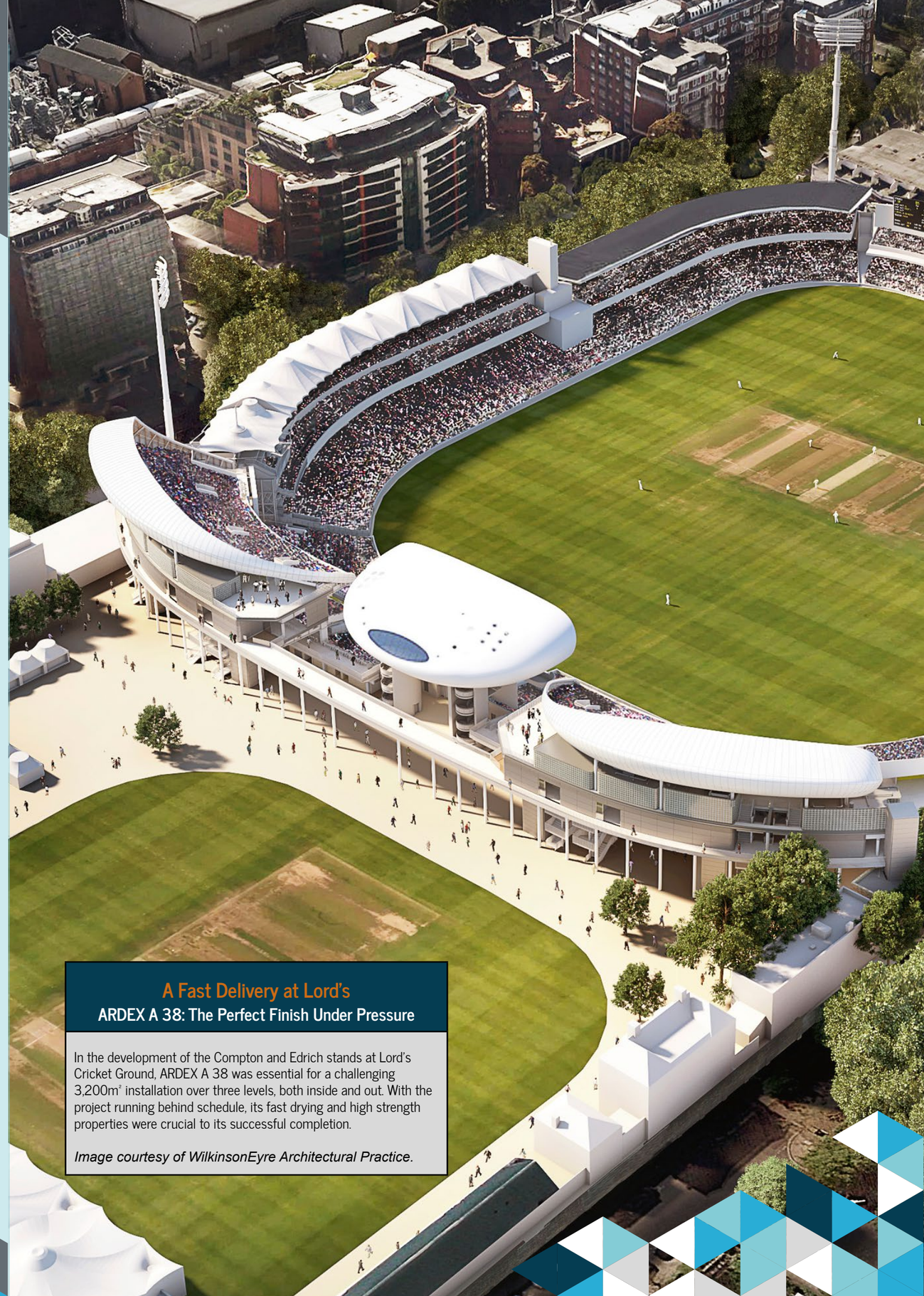
ARDEX Fast Track Screed Cements incorporate 'RAPIDRY FORMULA' Technology, binding the water used for mixing within the cement, ensuring rapid drying, minimum shrinkage and rapid strength development, regardless of thickness. In addition, all ARDEX products perform in typical UK site conditions, and offer the following fast track benefits over traditional screeds:

- The screeded area can be walked on in hours, as opposed to the 7 days that traditional screeds require as per BS 8204
- Floorcoverings can be installed in as little as 4 hours, compared to the months of drying a traditional screed may require
- ARDEX Screeds can pass a BRE Screed test in as little as 6 hours, rather than 2 weeks with conventional screeds

RAPIDRY PLUS FORMULA

What is the Rapidry Plus Formula?

The Raripdry Plus Formula gives the ability to totally bind the water used for mixing within the mortar, ensuring rapid drying and hardening properties.



A Fast Delivery at Lord's

ARDEX A 38: The Perfect Finish Under Pressure

In the development of the Compton and Edrich stands at Lord's Cricket Ground, ARDEX A 38 was essential for a challenging 3,200m² installation over three levels, both inside and out. With the project running behind schedule, its fast drying and high strength properties were crucial to its successful completion.

Image courtesy of WilkinsonEyre Architectural Practice.

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