

# ARDEXGROUP

High Performance Screeding Products



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 a focus on customer-focused innovation, ARDEX has remained at the forefront of the UK construction industry, offering a comprehensive range of 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.



Reg No. FM 01207

EMS 565427

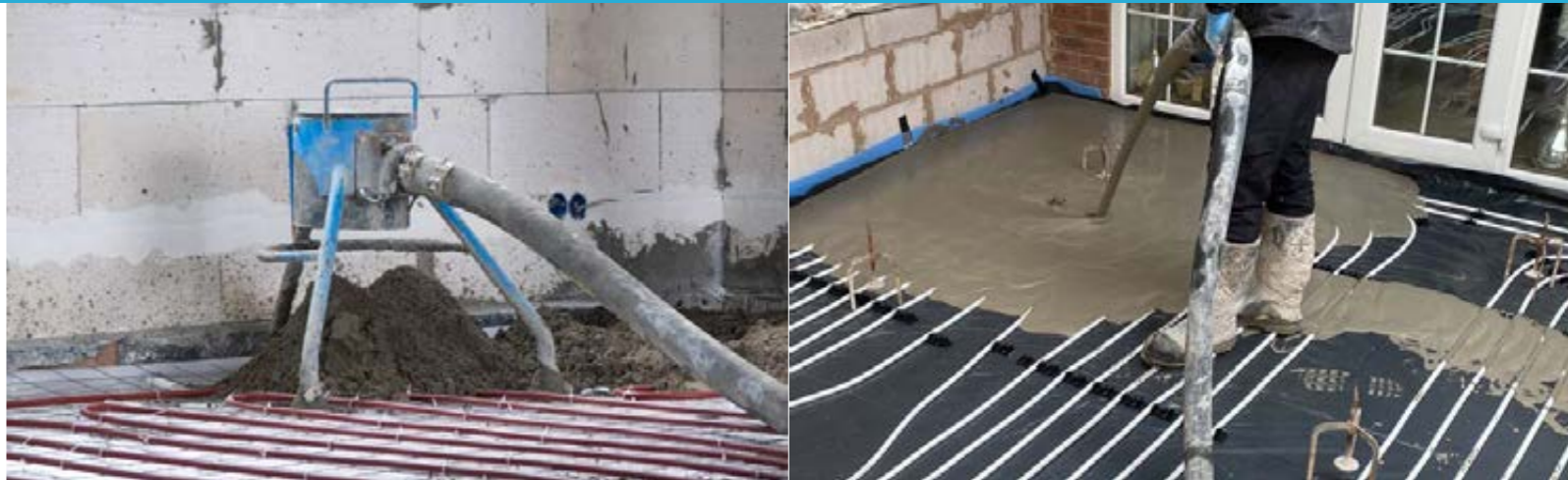
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# ARDEX SCREED RANGE

	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	
<b>ARDEX A 29</b>	Powder	Semi Dry	C40-F5	≥20mm	≥50mm	≥65mm/75mm	≥25mm	8 Hours	24 Hours	7 Days	24 Hours	7 Days	270kg (14 bags)	20kg	<b>ARDEX A 29</b>
<b>ARDEX A 38</b>	Powder	Semi Dry	C45-F5	≥15mm	≥50mm	≥65mm/75mm	≥25mm	3 Hours	6 Hours	3 Days	4 Hours	48 Hours	310kg (13 bags)	25kg	<b>ARDEX A 38</b>
<b>ARDEX A 38 MIX</b>	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	<b>ARDEX A 38 MIX</b>
<b>ARDEX FLOWPLUS</b>	Ready-Mixed Screed	Liquid Cement	C20-F4 to C30-F6	≥20mm	≥30mm/40mm	≥40mm/50mm	≥25mm	24-48 Hours	14 Days	14 Days	14 Days	21 Days	NA	1m <sup>3</sup> +	<b>ARDEX FLOWPLUS</b>
<b>CONTOPP ULTIMATE 4</b>	Liquid Additive	Semi Dry	C40-F7 (1:5 Mix)	≥20mm	≥30mm	≥35mm/40mm	≥25mm	24 Hours	4 Days	24 Hours	48 Hours	4 Days	2.8kg	20kg Jerrycan	<b>CONTOPP ULTIMATE 4</b>
<b>ARDEX A 70</b>	Powder	Liquid Anhydrite	C40-F7	-	≥30mm	≥35mm/45mm	≥25mm	6 Hours	36 Hours	3 Days	14 Days	14 Days	1790kg (72 bags)	25kg	<b>ARDEX A 70</b>

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





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 1000m<sup>2</sup> per day.

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

- + Very low shrinkage.
- + Walkable in 24-48 hours.
- + Extended 2 hour working time.
- + Strength options between 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 1,000m<sup>2</sup> per day.
- + Achieves A+ criteria for sustainability and extremely low VOC's to ISO 16000 standards.



### DRYING TIMES

Residual humidity of the screed:	Drying period:
3 CM-% Suitable for non-resilient flooring	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%.

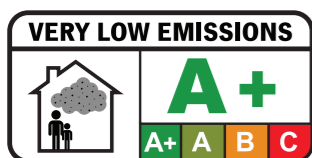
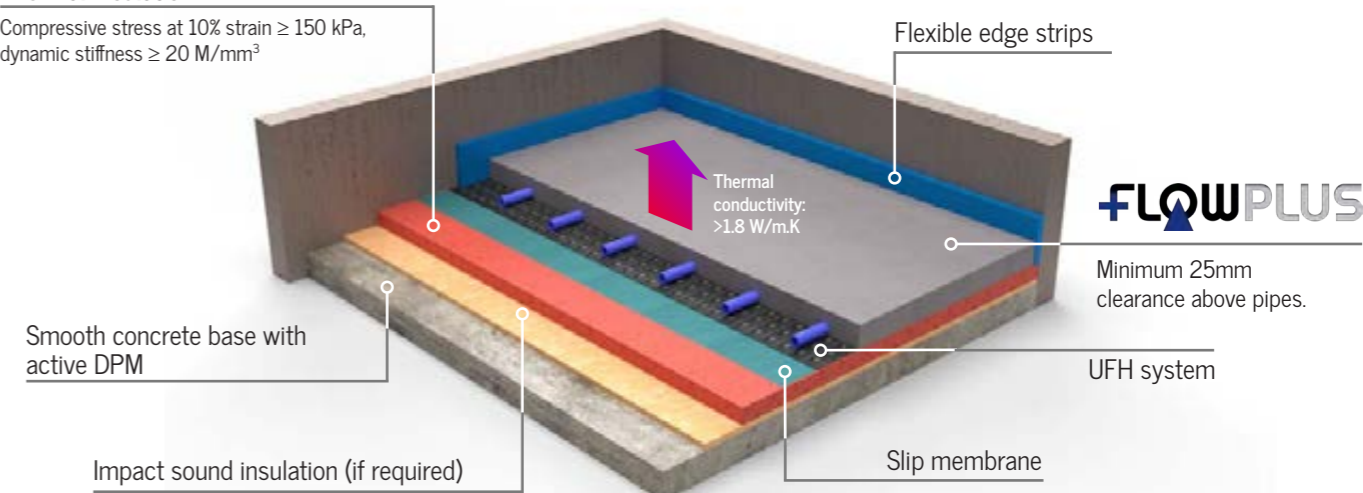
### THICKNESS

	Domestic:	Commercial:
Load	2.0 kN/m <sup>2</sup>	3.5 kN/m <sup>2</sup>
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

#### Thermal Insulation

Compressive stress at 10% strain ≥ 150 kPa, dynamic stiffness ≥ 20 M/mm<sup>3</sup>



# 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<sup>3</sup>) of screed or 500ml per 63kg of cement.
- + Available in 20kg jerrycans.

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<sup>3</sup>



20kg JERRY CAN



### MINIMUM DEPTHS (1:5 MIX)

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

### TIMINGS

Working Time	1 Hour
Walkable	24 Hours
BRE Test	4 Days
Tile From:	48 Hours
Resilient Flooring From:	4 Days
Commission UFH From:	24 Hours

### Typical Mix Designs Per 100L / 200kg

MIX:	1:5 CT-C40-F7	1:6 CT-30-F5	1:8 CT-20-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

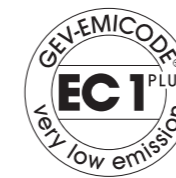


ARDEX A 38 has been used extensively on the London Underground and on projects where fast turnaround is essential.

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



INTERNAL AND EXTERNAL USE



PUMPABLE



310kg per M<sup>3</sup> (13 bags @15)



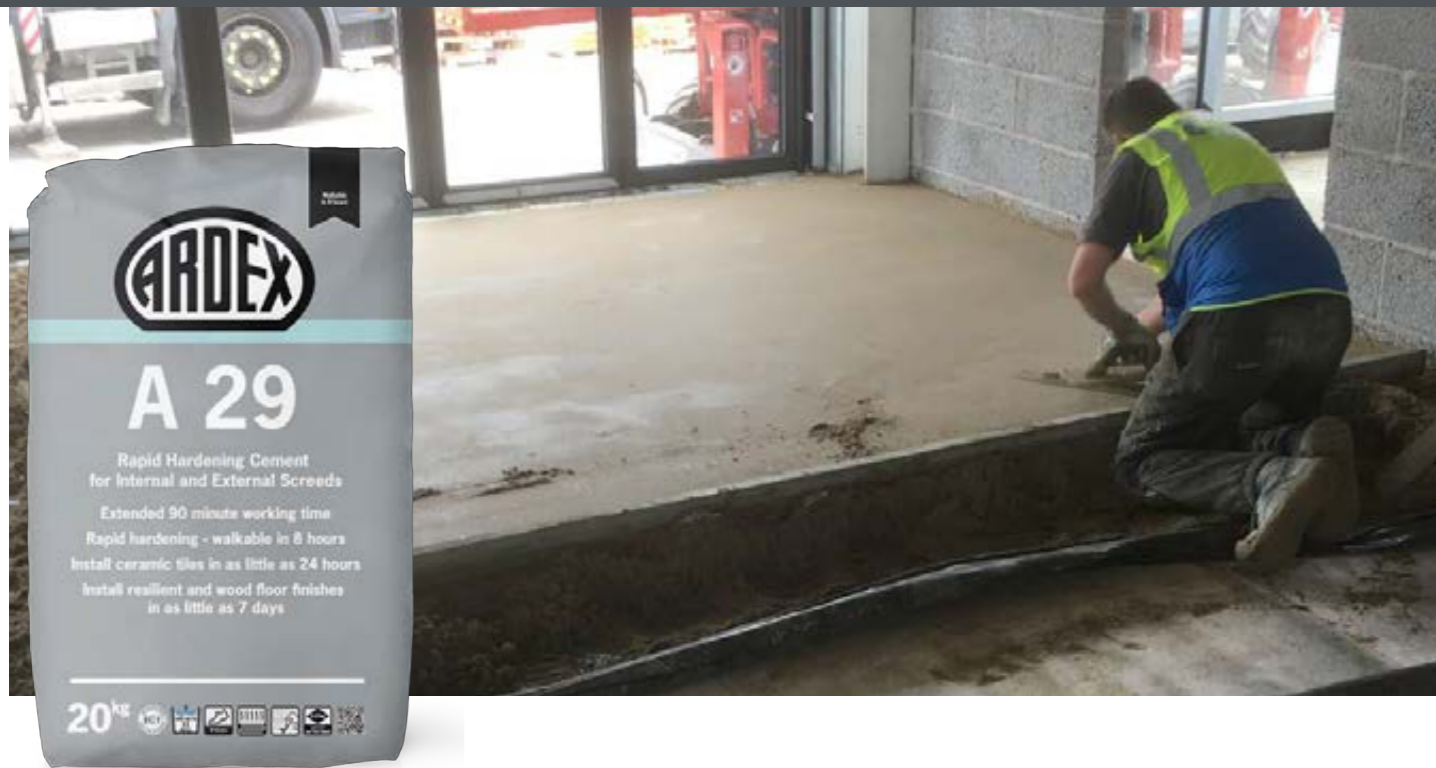
25kg BAGS

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

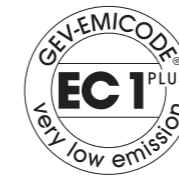
# ARDEX A 29

## Rapid Drying Cement for Internal & External Screeds



**ARDEX A 29** Rapid-Setting Floor Screed Cement 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.



INTERNAL AND  
EXTERNAL USE



PUMPABLE



270kg per M<sup>3</sup> (14  
bags @1.7)



20kg BAGS

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

TIMINGS	
Working Time	15 Hours
Walkable	8 Hours
BRE Test	24 Hours
Tile From:	24 Hours
Resilient Flooring From:	7 Days
Commission UFH From:	7 Days

# ARDEX A 70 GYPFLO

## Quick Drying Flowable Calcium Sulphate Screed



**ARDEX A 70 GYPFLO** is a rapid-drying, self-levelling calcium sulphate screed specifically engineered to receive floorcoverings in as little as 14 days – twice as fast as standard Calcium Sulphate screeds. This innovative pre-blended formulation requires only the addition of water, simplifying the preparation process. **ARDEX A 70 GYPFLO** is designed for creating unbonded and floating screeds in interior applications, offering a perfect balance of efficiency and performance.

- + Walkable in as little as 6 hours.
- + Ready to receive floorcoverings in as little as 14 days.
- + Pre-blended for consistency and convenience – just add water.
- + Pump or hand apply – ideal for areas with restricted access.
- + Excellent flow properties.
- + Low shrinkage minimises cracking and curling.
- + Can be used with underfloor heating systems.



INTERNAL USE



PUMPABLE



1790kg per M<sup>3</sup> (72 bags)



25kg BAGS

### MINIMUM DEPTHS

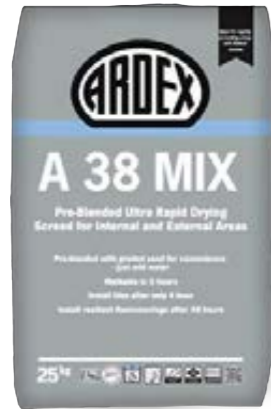
Unbonded	30mm
Floating Domestic/Commercial	35mm/45mm
UFH Clearance	25mm

### TIMINGS

Working Time	2 Hours
Walkable	6 Hours
BRE Test	36 Hours
Tile From:	14 Days
Resilient Flooring From:	14 Days
Commission UFH From:	3 Days

# PRE-BLENDED SCREEDS & BONDING CEMENT

# SCREED REPAIR & RENOVATION



## 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 Hours
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



PUMPABLE

INTERNAL AND EXTERNAL USE

1850kg per M<sup>3</sup> (74 bags)

25kg BAGS



## 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

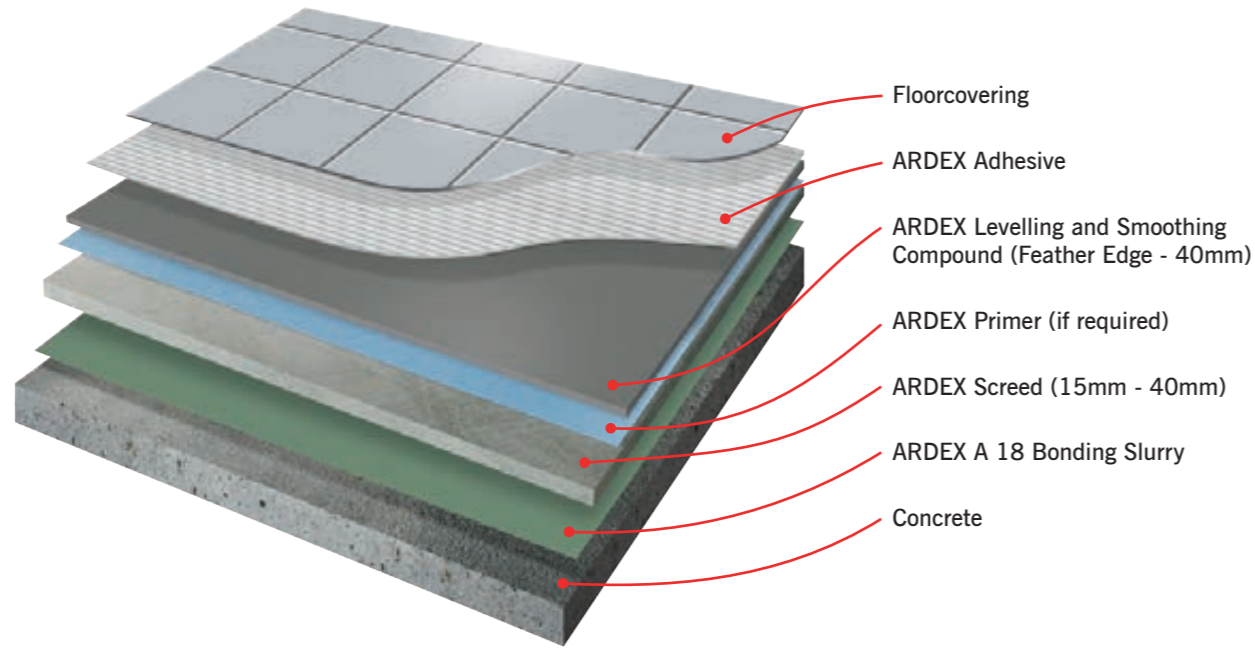
Ideal for the rapid repair of external and internal screeds, concrete and renders. ARDEX A 46 is moisture tolerant, and can be used in wet areas.

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

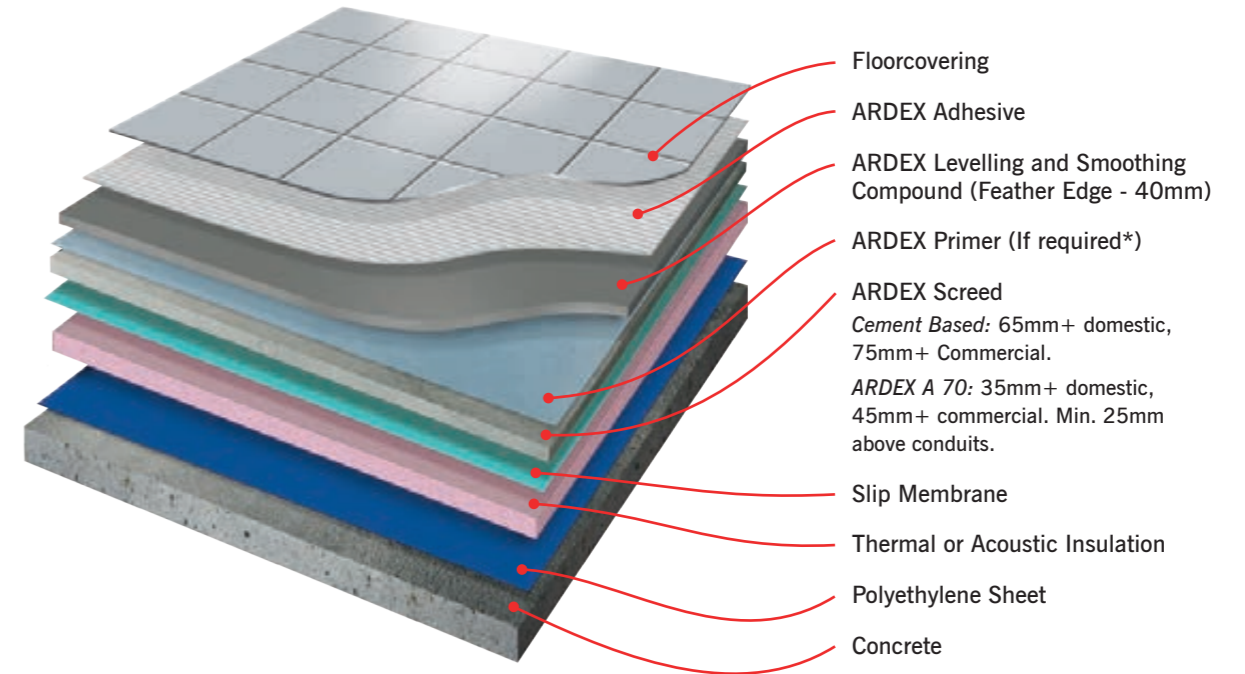
# ARDEX SYSTEM

# SPECIFICATION DIAGRAMS

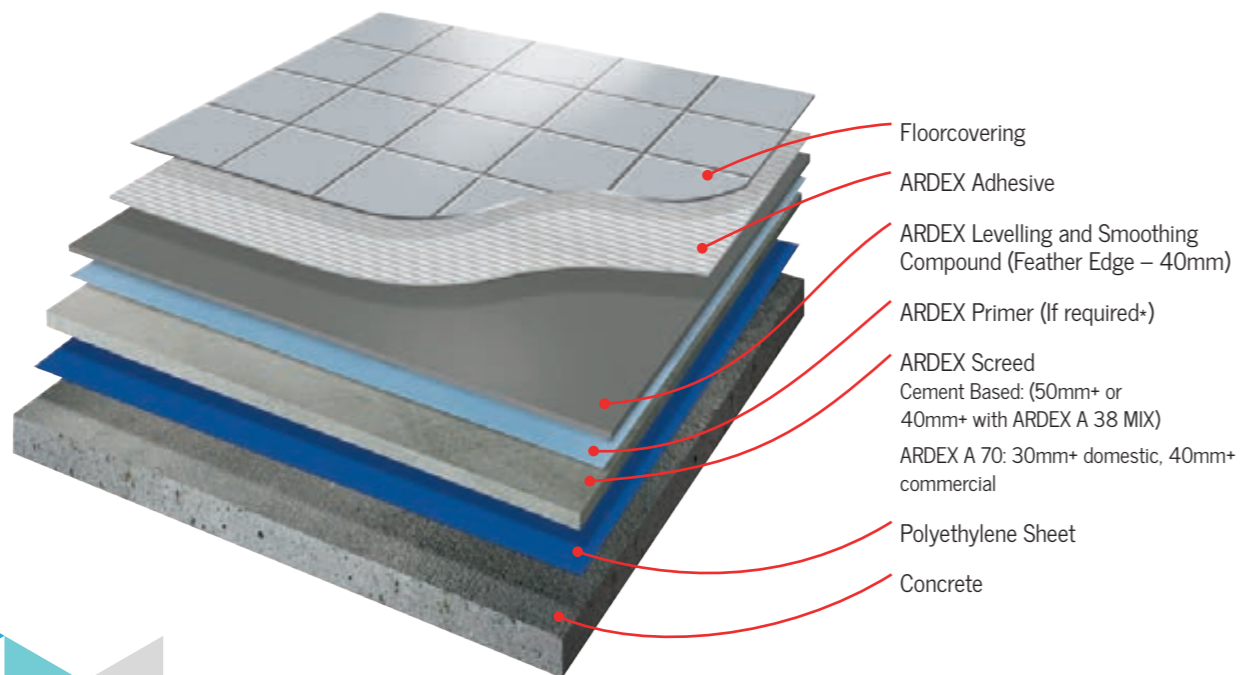
## BONDED SCREEDS



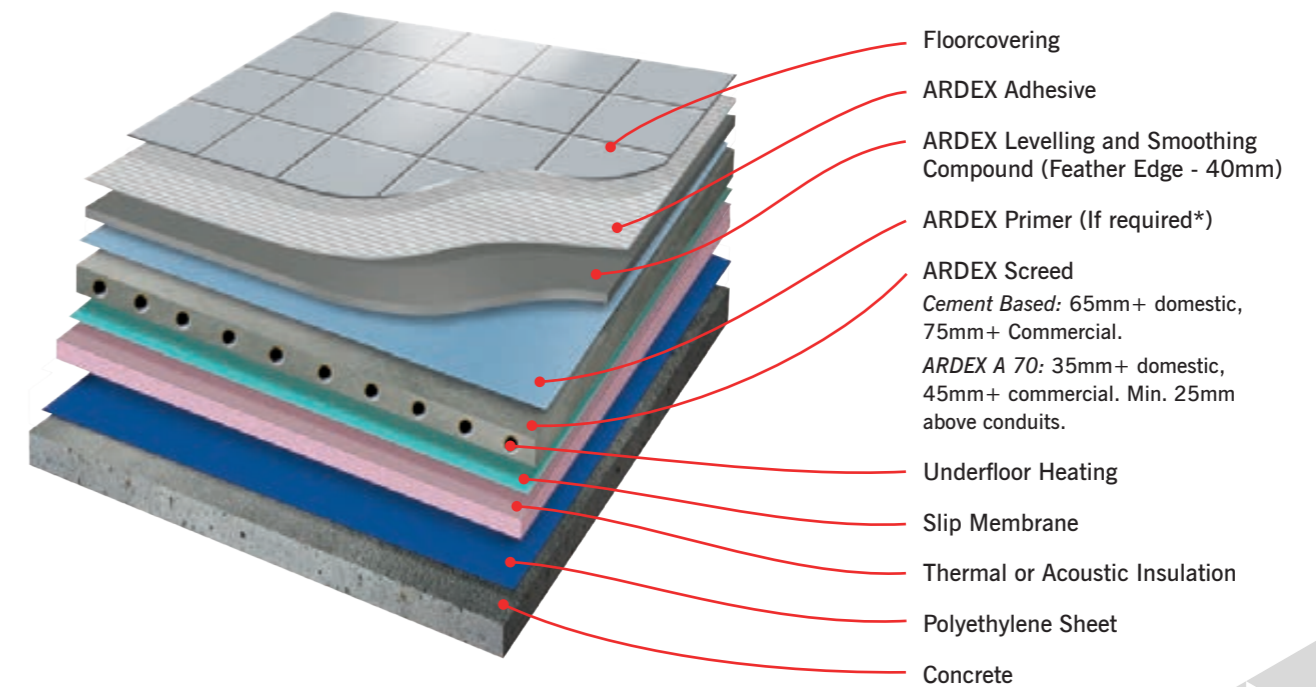
## FLOATING SCREEDS



## 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.



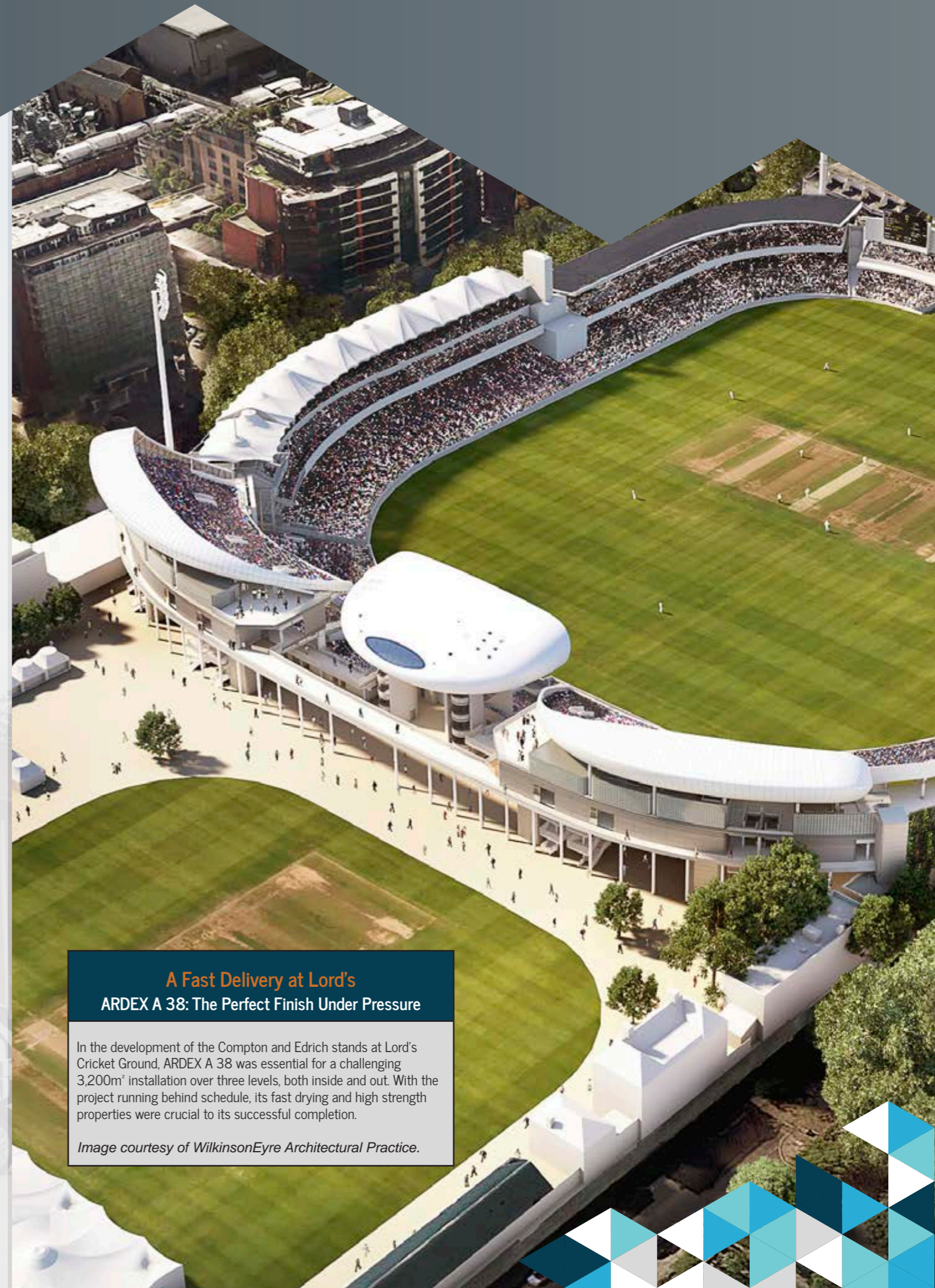
## TECHNICAL ADVICE

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.



### 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 3,200m<sup>2</sup> 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.*

# 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 will pass a BRE Screed test in as little as 6 hours, rather than 2 weeks with conventional screeds



## What is the Rapidry Plus Formula?

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





*Building tomorrow*



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