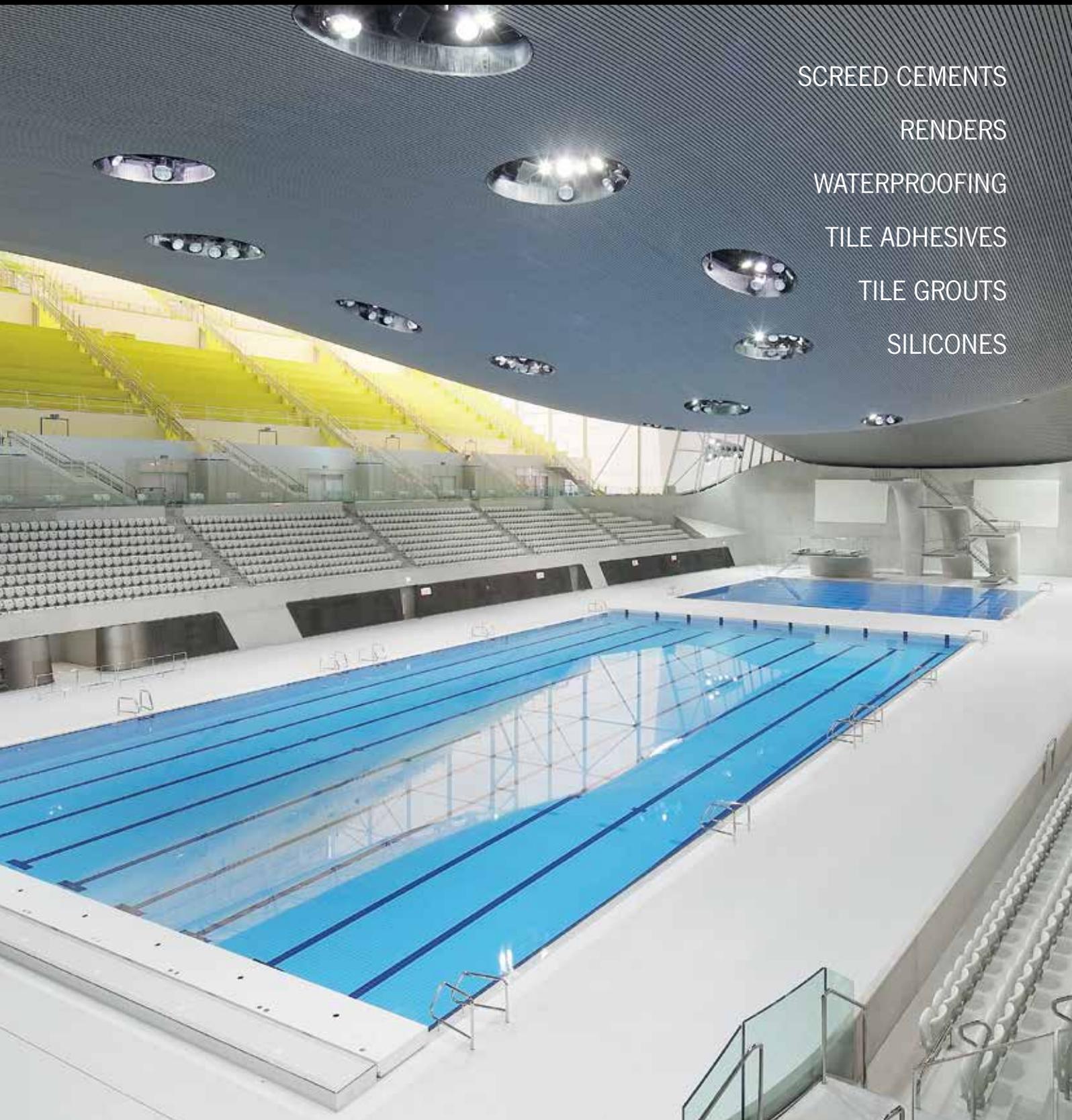




SCREED CEMENTS
RENDERS
WATERPROOFING
TILE ADHESIVES
TILE GROUTS
SILICONES



Swimming Pool Tiling Specialists





WHERE QUALITY MATTERS

The Aquatics Centre,
Olympic Park,
London



Our company's heritage dates back more than 60 years and, as a global manufacturer of high performance speciality building materials, ARDEX has remained at the forefront of the UK tiling and flooring industries.

The Experts in Swimming Pool Tile Installations

Operating across more than 50 sites worldwide, ARDEX are the premium supplier of products for the preparation and installation of tiles in swimming pool environments. With enhanced performance properties, our products have been specified on many prestigious projects, including the London Aquatics Centre and the Royal Commonwealth Swimming Pool in Edinburgh.

Specification Support at Every Stage

When specifying ARDEX, you can rely on our expert team for on-going support at every stage of the process, from rapid response to specification writing, to installation visits and on-site testing. National Building Specification clauses provide best practice, guidance and support for your tiling specifications.

In addition, our purpose-built training facility enables us to bring all parties involved in an ARDEX specification together, from the client through to the main or sub-contractors, ensuring total confidence in the specification and subsequent on-site application.

ARDEX CPD Academy

For the latest and most up to date information and advice, visit www.ardexcpdacademy.com

The Academy also allows you to earn CPD points by taking one of our RIBA approved CPD seminars online, including 'Specifying Tiling in Swimming Pools and Leisure Centres'

Technical guidance, product information and project case studies are also available to download, making the ARDEX CPD Academy an essential tool in the specification process.

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The ARDEX Pool System

Walls - Preparation

ARDEX AM 100 is recommended for use as a wall render prior to tiling. It can be applied from 2-20mm thick, and allows tiling to commence after just after 2 hours.

Walls and Floors - Waterproofing

Use ARDEX S 7 PLUS Waterproof Coating to ensure your swimming pool is water tight and free from leaks. Apply to walls and floors prior to tiling, and ensure you use the correct joint tapes required.

Walls - Tile Fixing

Fix mosaics or wall tiles with ARDEX MICROTEC X 77 Adhesive ensuring solid bedding is achieved.

Floors - Preparation

Depending on the thickness of base required, there are three options for floor preparation prior to tiling:

- 1 Apply ARDEX S 21 neat to the floor at a 0-10mm thickness.
- 2 Apply ARDEX S 21 with the incorporation of screeding sand to produce a 10-30mm base. This can also be used to form ramps and falls.
- 3 Apply an ARDEX A 38 screed cement to make up a concrete base for a 15-50mm bonded screed.

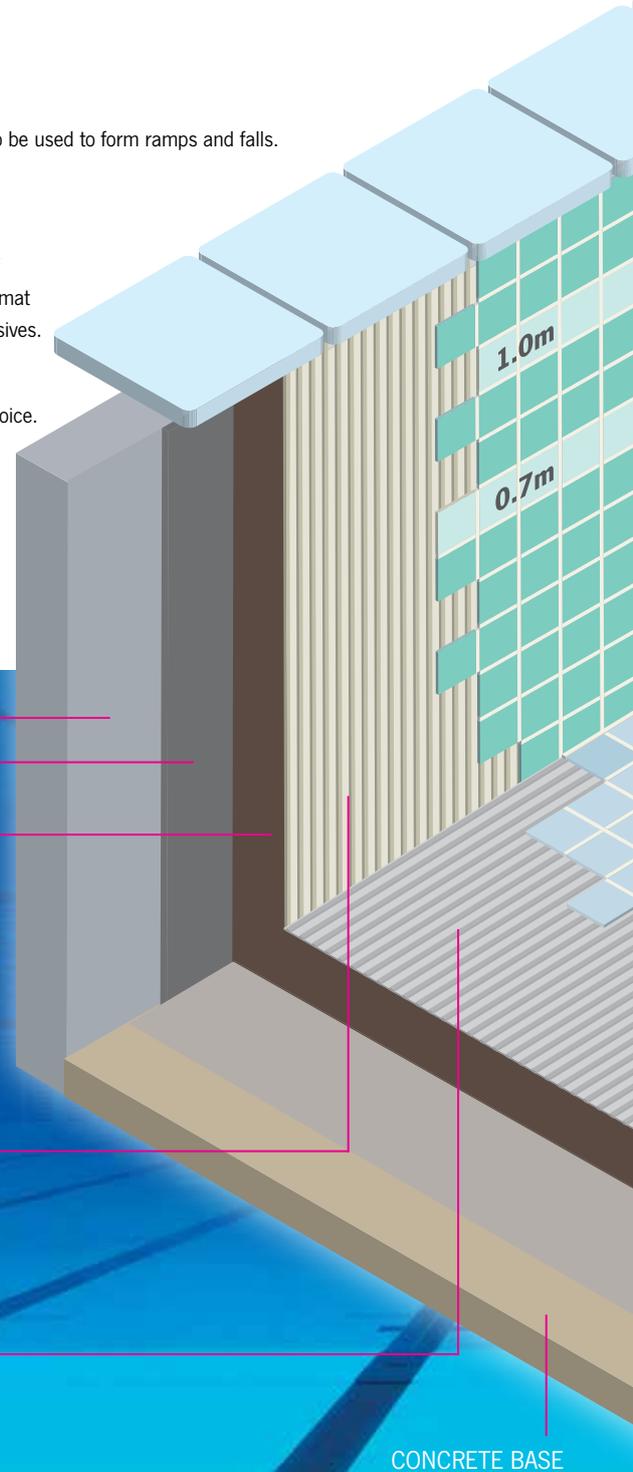
Floors - Tile Fixing

Ensure solid bedding of the tiles is achieved when fixing mosaics or floor tiles using ARDEX MICROTEC X 77 Adhesive, or for a rapid setting alternative use ARDEX MICROTEC X 77 S Adhesive. If you are fixing large format tiles and require a semi-pourable adhesive, use ARDEX MICROTEC X 78 or ARDEX MICROTEC X 78 S Adhesives.

Grouting Walls and Floors

- 1 ARDEX-FLEX FS and ARDEX-FLEX FL Tile Grouts are available in 32 colours to colour match any tile choice.
- 2 For areas where chemical resistance and hygienic joints are required, use ARDEX EG 8 PLUS Epoxy Tile Grout and Adhesive.

Always refer to the product data sheet or call the ARDEX Technical Services Department for advice on 01440 714939. You can also refer to BS 5385-4:2009 regarding timescales for stages of work and pool filling times.



ARDEX AM 100
Rapid Hardening
One Coat Tiling Render



ARDEX S 7 PLUS
Flexible Waterproof Coating
for Floors and Walls

OPTION 1: Standard Set Adhesive

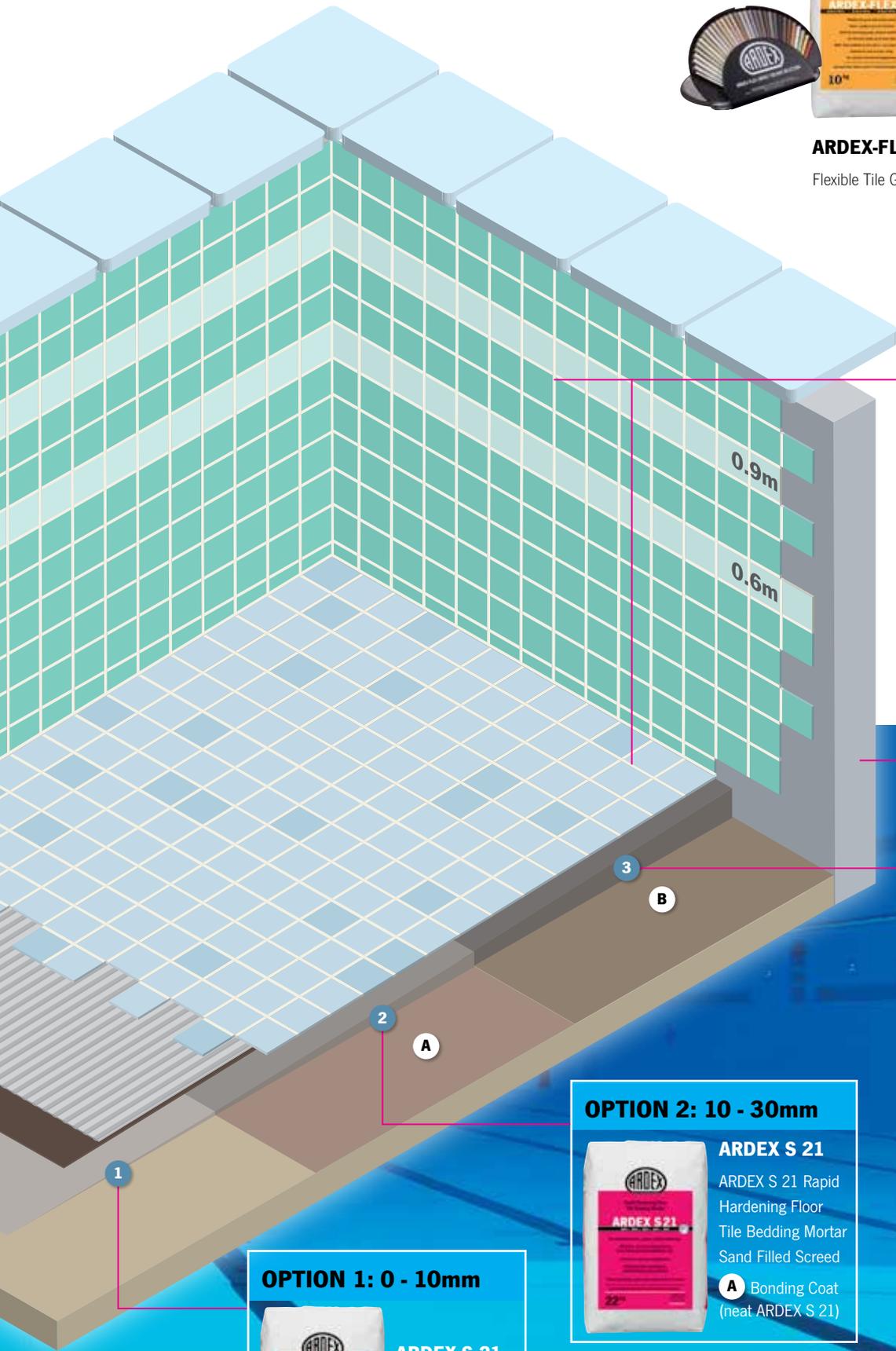


ARDEX X 77
MICROTEC® Flexible
Wall and Floor Tile
Adhesive

OPTION 2: Semi-Pourable Adhesive



ARDEX X 78
MICROTEC® Flexible
Semi-Pourable Floor
Tile Adhesive



ARDEX-FLEX FS
Flexible Tile Grout

ARDEX-FLEX FL
Rapid Setting Flexible
Tile Grout



ARDEX EG 8 PLUS
Epoxy Tile Grout and
Adhesive

CONCRETE

OPTION 3: 15 - 50mm



ARDEX A 38
Ultra Rapid Drying
Cement for
Internal & External
Screeds



ARDEX E 100
Additive for Bonding/
Slurry Grouts

OPTION 2: 10 - 30mm



ARDEX S 21
ARDEX S 21 Rapid
Hardening Floor
Tile Bedding Mortar
Sand Filled Screed
A Bonding Coat
(neat ARDEX S 21)

OPTION 1: 0 - 10mm



ARDEX S 21
Rapid Hardening
Floor Tile Bedding
Mortar

The information supplied in our literature or given by our employees is based upon extensive experience and, together with that supplied by our agents or distributors, is given in good faith in order to help you. We guarantee the consistent high quality of our products; however, as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

For detailed information and advice please visit www.ardex.co.uk or call our Technical Services Department on 01440 714939

The Complete System for Swimming Pool Installations

ARDEX offer a complete system approach for the installation of swimming pools, from rapid drying floor screed cements that ensure the perfect subfloor to tile onto, to high performance tile adhesives and grouts.

PREPARATION

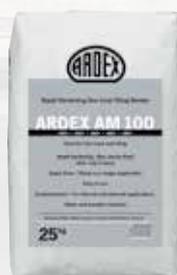
Correct preparation is vital in any installation. ARDEX are the experts in subfloor preparation, and our range of Rapid Drying Screed Cements and Renders help to ensure the perfect substrate to tile onto is achieved.



ARDEX A 38

Ultra Rapid Drying Cement for Internal & External Screeds

- Receives ceramic tiles directly after only 4 hours for bonded, unbonded and floating screeds
- Walk on after 3 hours
- For internal and external use, including wet and submerged areas



ARDEX AM 100

Rapid Hardening One Coat Tiling Render

- Ideal for fast track wall tiling
- Tiles can be fixed after only 2 hours
- Apply from 2-20mm in a single application
- Water and weather resistant



ARDEX E 100

ARDEX E 100 is diluted with an equal volume of water to prepare a grouting slurry for bonded screeds, when mixed with ARDEX A 38.



ARDEX S 21

Rapid Hardening Floor Tile Bedding Mortar

- Ideal for forming falls in swimming pools, and for creating ramps and pre-levelling subfloors
- Tiles can be fixed after only 3 hours
- Suitable for internal and external use

WATERPROOFING

ARDEX Waterproof Coatings ensure that your swimming pool or shower area is water tight and free from leaks.



ARDEX S 7 PLUS

Flexible Waterproof Coating for Floors and Walls

- Use to waterproof swimming pools prior to fixing ceramic tiles
- Tiles can be fixed to second coat after only 4 hours
- Resists water pressure up to 5 Bar
- Suitable for internal and external use



ARDEX WPC

Waterproof Protection System

- Use to waterproof showers in changing areas prior to fixing ceramic tiling
- Tile after 90 minutes
- Quick and easy to apply



TILE ADHESIVES

ARDEX MICROTEC Tile Adhesives have unique features which include extended open times of up to 60 minutes, and ultra-rapid setting properties which allow tiles to be walked on and grouted after just 90 minutes.



ARDEX X 77 MICROTEC Flexible Wall and Floor Tile Adhesive

- Fibre reinforced for enhanced adhesion and flexibility
- 3 hour pot life and 60 minute open time allow larger amounts of adhesive to be mixed and spread in a single application
- Where ultra rapid setting is required, ARDEX X 77 S allows tiles to be grouted after just 90 minutes



ARDEX X 78 MICROTEC Flexible Semi-Pourable Floor Tile Adhesive

- Fibre reinforced for enhanced adhesion and flexibility
- Semi-pourable consistency for solid bed fixing large format floor tiles
- 3 hour pot life and 60 minute open time allow larger amounts of adhesive to be mixed and spread in a single application
- Where ultra rapid setting is required, ARDEX X 78 S allows tiles to be grouted after just 90 minutes

TILE GROUTS

ARDEX Tile Grouts provide the perfect finish to any installation and are available in 32 colours.



ARDEX-FLEX FS Flexible Tile Grout with Built-In Admix

- Suitable for wall and floor tiling in swimming pools
- Water repellent and dirt resistant
- For joint widths up to 4mm



ARDEX-FLEX FL Rapid Setting Flexible Tile Grout with Built-in Admix

- Suitable for wall and floor tiling in swimming pools
- Rapid hardening, receives foot traffic in 90 minutes
- For joint widths from 3-15mm



ARDEX EG 8 PLUS Epoxide Tile Grout and Adhesive

- Combines the chemical resistance of epoxy-based grouts with the application properties of cement-based grouts
- Ideal for use in swimming pools, hydrotherapy and spa baths, bathrooms & showers
- Can be cleaned off the tile surface up to 60 minutes after application
- For joint widths from 1-6mm



ARDEX-FLEX TILE GROUTS ARE
AVAILABLE IN 32 COLOURS

Swimming Pool Repair and Refurbishment

The refurbishment or repair of a swimming pool is the most cost effective way to return it to its original condition. ARDEX products facilitate the rapid repair of damage to loose tiles or leaks to small areas, or the re-tiling of entire pools without the expense of a new installation.

Repair and Refurbishment – The ARDEX Tile on Tile Solution

STEP 1:

Assess the pool and pool area, checking for loose tiles or areas of damage.

STEP 2:

Fill any gaps, holes or areas of damage with ARDEX A 46 Repair Mortar to give a flat even surface to tile on to.

STEP 3:

Use ARDEX Degreaser to thoroughly clean the existing tiled surface prior to fixing the new tiles, to ensure the surface is free from contamination that may impair adhesion.

STEP 4:

Fix the tiles with ARDEX X 7 Tile Adhesive and ARDEX E 90 ADMIX, to give the additional adhesion properties required in a wet location.

STEP 5:

ARDEX-FLEX Tile Grouts are available in 32 colours to complete the refurbishment project.

For further information and advice please contact our Technical Services Department on 01440 714939



ARDEX Degreaser

Effectively removes contaminants from the existing tile surface, prior to the application of the ARDEX Adhesive



ARDEX A 46

Slump free repair and patch mortar ideal for filling holes behind loose or damaged tiles



ARDEX X 7 and ARDEX E 90

ARDEX X 7 Tile Adhesive and ARDEX E 90 Admix is the perfect system for facilitating tile on tile applications in internal and external swimming pool refurbishments. The addition of ARDEX E 90 Admix provides the adhesive strength required for fixing onto smooth or glazed surfaces.



ARDEX-FLEX TILE GROUTS

Water-repellent and dirt resistant tile grouts ideal for use in submerged areas. ARDEX-FLEX FS is ideal for joints up to 4mm wide, and ARDEX-FLEX FL for joints from 3-15mm. Both products are available in a range of 32 colours.



ARDEX EG 8 PLUS

An epoxy grout that provides a durable, waterproof finish with chemical resistance, making it ideal for use in areas where hygienic joints are required.

Tiling Pool Surrounds and Changing Rooms



ARDEX have the perfect system for pool surrounds, changing rooms and shower areas.

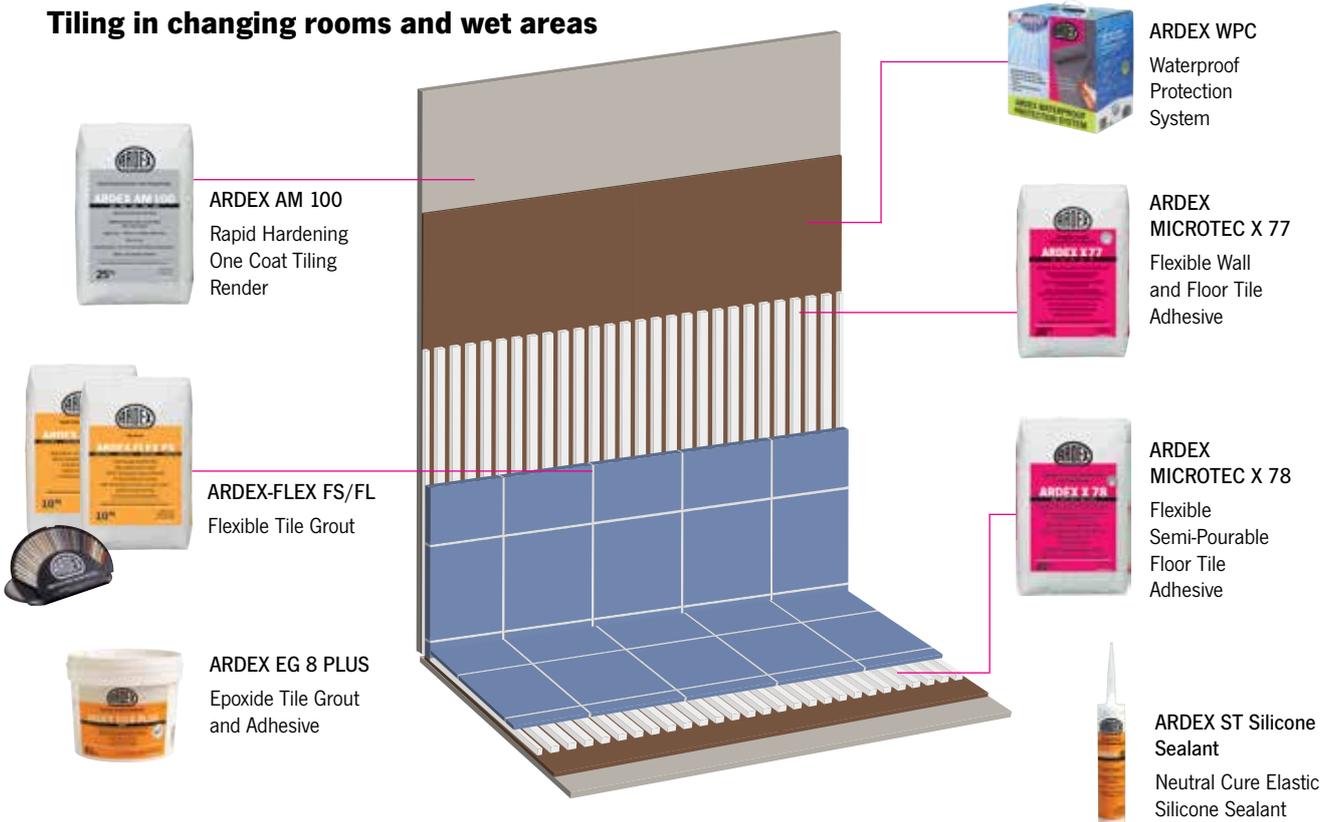
Most changing room specifications now include underfloor heating, with radiators becoming less popular due to a requirement for more space. An ARDEX A 38 screed cement can be laid in wet or submerged areas, and tiling can commence after just 4 hours and underfloor heating systems commissioned after 3 days.

When installing showers and wet rooms it is essential to ensure that the background to be tiled is protected from water ingress, which can result in leaks to other areas of the changing room or adjacent rooms,

or loss adhesion between the tiles and substrate. Advice in BS 5385-4 recommends that in tile installations that are not immersed, but subject to frequent contact with water, the basic structure behind the tiles should be watertight. Since there is likely to be relatively little opportunity to dry out between periods of use, it should be tanked.

ARDEX WPC offers a watertight guarantee, is quick and easy to apply and can be tiled on after only 90 minutes.

Tiling in changing rooms and wet areas



The Aquatics Centre, Olympic Park, London

ARDEX Tiling Products deliver gold at London 2012 Aquatics Centre

The Aquatics Centre was designed by the internationally acclaimed architect Zaha Hadid, who worked in conjunction with leading swimming pool architects, S&P. The breathtaking 17,500 seat arena forms part of the gateway to the Olympic Park, and is housed beneath a distinctive wave-like curved roof. The centre houses a 50m competition pool, a 50m warm up pool, and a 25m competition diving pool, with a 'dry' warm-up area for divers. The project required a proven fast track tiling solution as well as the ability to withstand the challenging environment within the centre, and rigorous hygiene demands.

COMPLETED TILED AREAS INCLUDE:

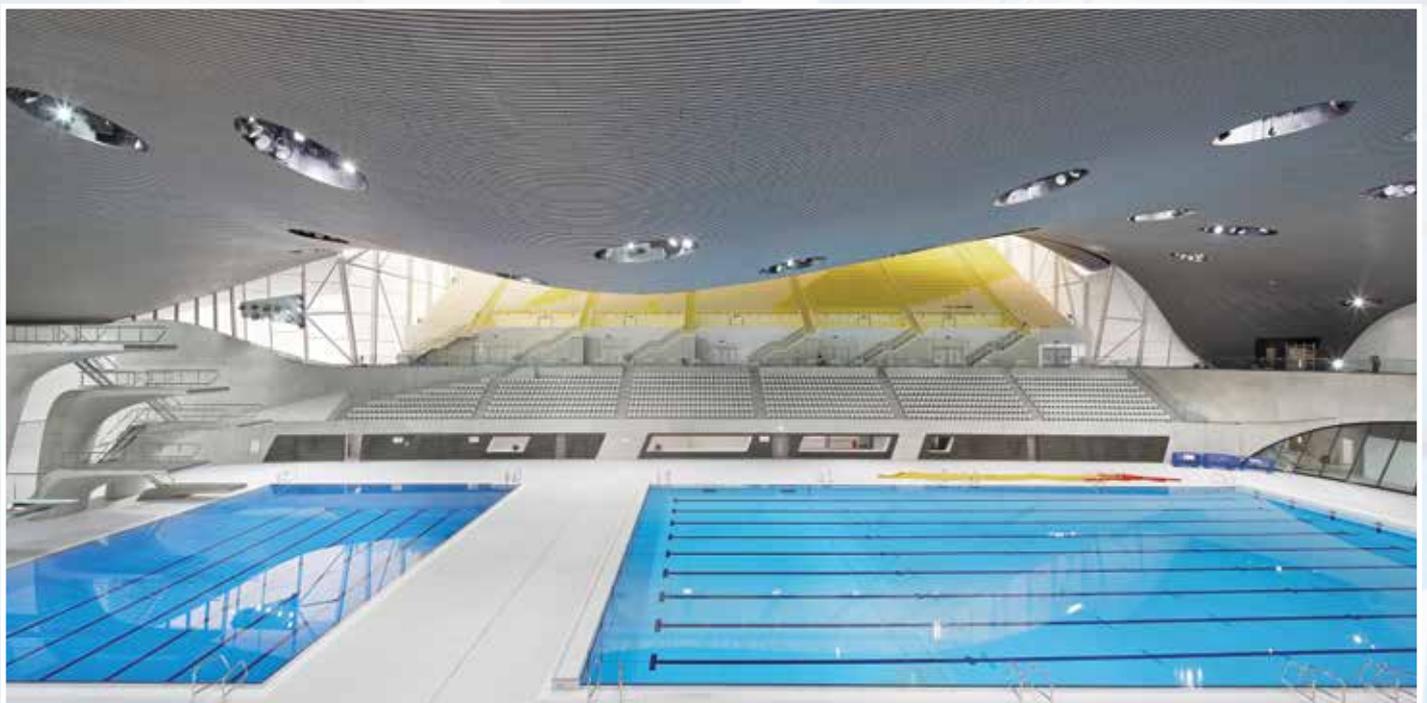
- 50 metre Olympic competition pool and surrounds
- 50 metre warm up pool and surrounds
- Deep diving pool and surrounds

PROJECT SIZE:

10,000m²

PROJECT VALUE:

£1.2million



Having completed many prestigious leisure installations, ARDEX UK were delighted to work in partnership with specialist tiling contractor, W B Simpson Limited, and supply the ideal tile fixing system to assist with the completion of the iconic Aquatics Centre at the Olympic Park, London.

As with previous high profile projects, including Heathrow Airport, Kings Cross St Pancras Station, Harrods and London Zoo, it was the proven performance and versatility of ARDEX products that won favour with the contractor. In addition, the ARDEX Business Development and Technical Services teams provided on-going support at every stage, from rapid response to specification writing, to installation visits and on-site testing. ARDEX's purpose-built training facility enabled them to bring together all parties involved in the specification, from the client through to the main contractor, ensuring total confidence in the specification, and subsequent on-site application.

Once the main construction of the Aquatics Centre had been completed, the different depth 'falls' of the pool surround were levelled with an application of ARDEX S 21, a Rapid Drying Floor Tile Bedding Mortar which allowed further work to commence after only 3 hours.

Prior to fixing the pool surround tiles, ARDEX S 7 was applied to provide a waterproof coating, eliminating the risk of leaks, or water damage to the mechanical and electrical equipment under the pool surround.

One of the key influences in ARDEX winning this prestigious project was the fact that ARDEX MICROTEC X 77 Flexible Wall & Floor Tile Adhesive was suitable for fixing all of the tiles in the Aquatic Centre. By using just one tile adhesive, cost savings and application time was saved. ARDEX MICROTEC X 77 has an open time of up to 60 minutes, which means that you can spread larger areas of adhesive in a single application, enabling the team at the Aquatics Centre installation to work more efficiently, and allowing more time when tiling awkward areas, or cutting around fixtures and fittings in the pool and pool surrounds.

The tiling installation for the Aquatics Centre was vast, with 866,000 ceramic tiles installed in the pools, poolside and changing rooms, (180,000 lining the pools themselves). The main pool tiles were supplied by Spectile Ltd of Crewe.

To complete the installations, ARDEX-FLEX FL Rapid Setting Flexible Tile Grout in Dove Grey was chosen to fill the pool tile joints. ARDEX colour tests every batch of tile grout, and the advanced manufacturing process ensures uniform colour distribution which eliminates 'streaking' during mixing. In addition to offering a colour palette of 32 colours, ARDEX-FLEX Tile Grouts incorporate flexibility, water repellence, ease of application and dirt resistance, which combined to ensure the perfect finish for the Aquatics Centre.



ARDEX Products used in the Aquatics Centre at the Olympic Park, London



ARDEX X 77
MICROTEC Flexible Wall
and Floor Tile Adhesive



ARDEX-FLEX FL
Flexible Tile Grout
Dove Grey



ARDEX S 7
Flexible Waterproof Coating
for Floors and Walls



ARDEX S 21
Rapid Hardening Floor
Tile Bedding Mortar



ARDEX WPC
Waterproof
Protection System

In addition to the tiling system installed throughout the pools, the shower areas within the changing rooms were prepared with ARDEX WPC, which provided a rapid drying waterproof protection coat. It was essential to ensure that the tiled background had protection from moisture ingress, which can result in leaks to other areas within the changing rooms, or a loss of adhesion between the tiles and substrate. ARDEX WPC is quick and easy to apply, and helped to minimise downtime, as tile fixing can commence after just 90 minutes.

Andy Reid, National Business Development Manager for ARDEX commented, "The Aquatics Centre is an amazing facility, and one that will benefit the local community for years to come. Our tiling systems have been specified in many leisure projects, but winning the contract for the Aquatics Centre was a great achievement, and a testimony to ARDEX's 'gold standard' product range and support. The feedback from the installation team was extremely positive, and the completed venue is truly stunning. In addition, we are delighted to have secured, as a result of our success with the Aquatics Centre, various new prestigious swimming pool projects."

For further information on the ARDEX product range please call 01440 714939, email info@ardex.co.uk or visit ARDEX online at www.ardex.co.uk



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