



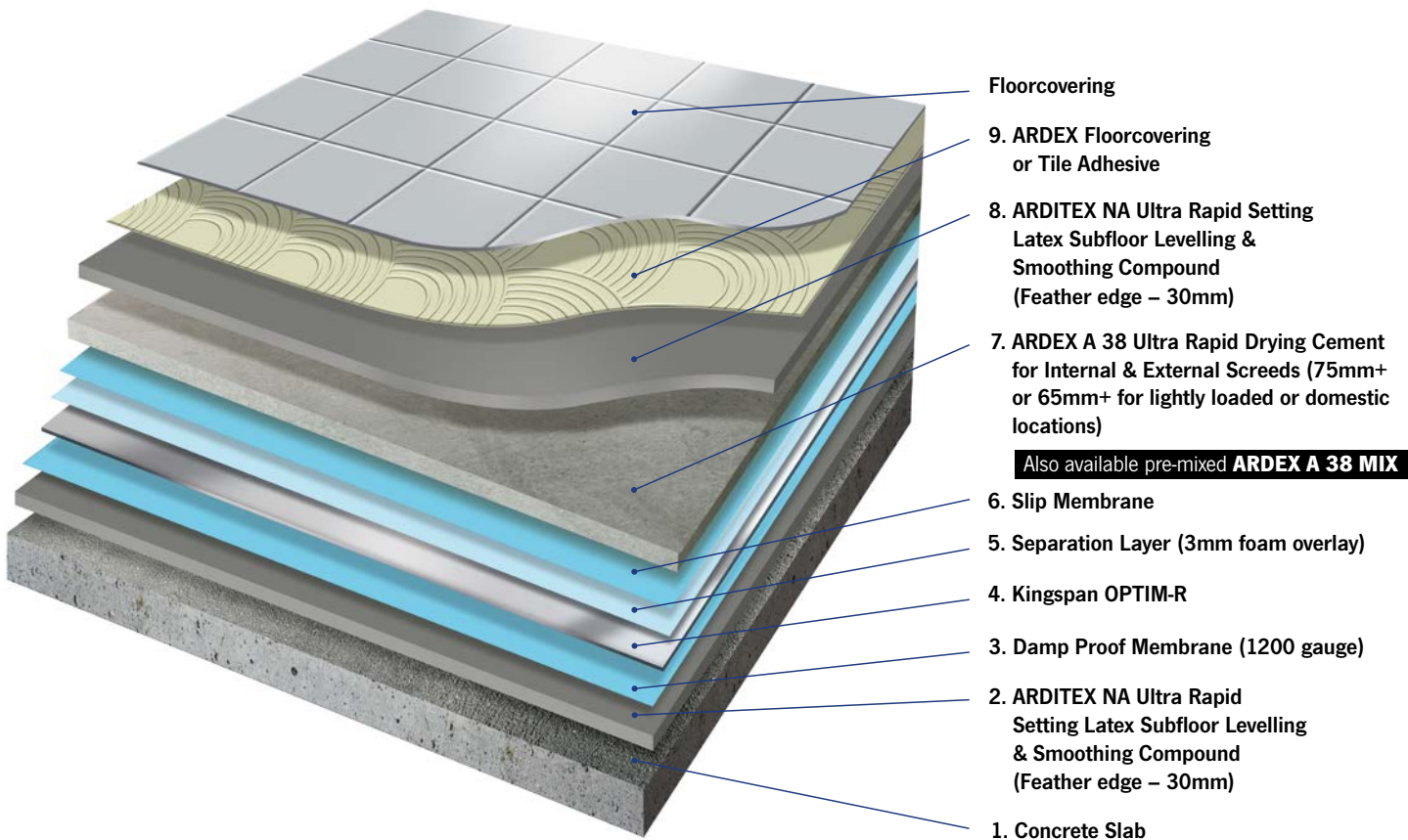
HIGH PERFORMANCE  
FLOORING AND TILING PRODUCTS

CI/SfB

(43)

OCTOBER 2016  
PRODUCT DATA SHEET

## FLOATING SCREED SYSTEM



1. Allow the concrete slab to dry out fully. Beam and block floors should be level and grouted.

2. Apply ARDITEX NA Ultra Rapid Setting Latex Subfloor Levelling and Smoothing Compound to achieve a level surface, and to prevent protrusions from the slab coming into contact with the Kingspan OPTIM-R panels. ARDITEX NA can be applied direct to concrete without priming, up to a thickness of 12mm neat or 30mm with the inclusion of ARDEX Coarse Aggregate. Allow time to harden before proceeding further, typically just 3 hours after application under normal temperature conditions.

3. When laying the damp proof membrane (DPM), lay it with joints well lapped and folded. Bring the DPM up the foundation wall until it is sufficiently above the wall damp proof course (DPC) so it can join with or form the DPC.

4. Starting at each external corner, lay the Kingspan OPTIM-R in accordance with the lay out drawing provided. Panels should always be laid with film flaps laid against the substrate, and be loose-laid, break bonded where practical, with all joints lightly butted.

Kingspan OPTIM-R flex infill panels should be used to insulate around any penetrations.

Where runs of the Kingspan OPTIM-R do not accurately fit the dimensions of the floor, cut Kingspan OPTIM-R flex strips of the same thickness as the Kingspan OPTIM-R and lay them to make up the difference.

Place Kingspan OPTIM-R flex strips (minimum 25mm thickness) vertically around the perimeter of the floor slab in order to reduce cold bridging. The top of the vertical Kingspan OPTIM-R flex strips should be level with the top of the floor screed and the bottom should be level with the bottom of the horizontal floor insulation and closely butted up to it.

- Roll the 3mm foam separation layer supplied with the Kingspan OPTIM-R over the panels.
- Overlay the system with a slip membrane (not less than 125 micron/500 gauge) to prevent wet screed from penetrating the board joints or to act as a slip layer and vapour control layer for floating floors.

Ensure the slip membrane has 150mm overlaps, taped at the joints, and is turned up 100mm at the walls.

- Lay the screed using ARDEX A 38 Ultra Rapid Drying Cement for Internal & External Screeds to a minimum of 65mm for lightly loaded or domestic locations, or 75mm for all other building types. Allow time to harden before installing the final floorcovering; with ARDEX A 38, this can be as little as 4 hours.
- If required, particularly before installing resilient floorcoverings such as vinyl, PVC and rubber, firstly apply a final layer of ARDITEX NA to create a level and smooth surface. ARDITEX NA can be ready to receive ceramic tiles after just 3 hours, and other floorcoverings after just 4 hours.
- Install floorcovering using an ARDEX Flooring or Tile Adhesive.

### ARDITEX NA Ultra Rapid Setting Latex Subfloor Levelling and Smoothing Compound



- Creates a smooth and level surface ideal for installing insulation panels and floorcoverings
- Install insulation panels and floorcoverings in as little as 3 hours
- Unaffected by moisture – can be applied direct to damp concrete
- Excellent adhesion without priming to almost all substrates
- Suitable for use with underfloor heating
- Apply feather edge up to 12mm neat, or up to 30mm incorporating ARDEX Coarse Aggregate

### Kingspan OPTIM-R Optimum Performance Rigid Vacuum Insulation Panel



- High levels of thermal efficiency with minimal thickness, ideal for constructions where a lack of construction depth or space is an issue
- Design (aged & edge effect) thermal conductivity of 0.007 W/m-K
- Provides an insulating performance that is up to five times better than commonly used insulation materials
- Available in a range of sizes and thicknesses

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



Also available pre-mixed **ARDEX A 38 MIX**



- Walkable after 3 hours
- Fix ceramic and natural stone tiles after 4 hours, and carpet, vinyl and wood floorcoverings after 2 days
- Passes BRE In-Situ Crushing Resistance Testing after 6 hours
- Commission underfloor heating after 3 days
- Suitable for internal and external use, including wet areas

**TRADITIONAL SAND/CEMENT AND ANHYDRITE SCREEDS DRY AT A RATE OF 1MM PER DAY, MEANING MONTHS OF DRYING BEFORE SUBSEQUENT WORK CAN BEGIN.**

**WITH ARDEX RAPID DRYING SCREED CEMENTS, THE AREA CAN BE WALKED ON IN AS LITTLE AS 3 HOURS AND FLOORCOVERINGS CAN BE INSTALLED IN AS LITTLE AS 4 HOURS, REGARDLESS OF THICKNESS.**

For further information, please consult the relevant product datasheets at [www.ardex.co.uk](http://www.ardex.co.uk) and [www.kingspaninsulation.co.uk](http://www.kingspaninsulation.co.uk).

NOTE: 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. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also 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.