

Paving Tile Fixing Specification 1

Ruabon paving tiles provide the perfect solution for driveways, patios and paths where a solid existing substrate is in place or is the preferred base for installation. A natural clay paved surface can be achieved with the simplicity of standard floor tile fixing. *Technical Data Sheet No. 14* gives full details of the technical properties of Ruabon paving tiles.

Background Preparation

Substrate should be sound and stable and free from dust, dirt and other loose materials. Concrete bases or sand/cement screeds should be fully cured. New concrete should be allowed to dry for a minimum of 6 weeks. Where a sand/cement screed has been added a further 3 weeks drying time is required. Asphalt surfaces should be removed and replaced with either a suitable screed material or concrete substrate. Paving tiles may also be fixed directly to existing tiling, patios, pathways etc. It is essential that existing surfaces are sound and capable of bearing any anticipated loading in use. The Advice on suitability of existing surfaces can be obtained from Ardex Technical Department 01440 714939.



Base should be sufficiently flat to ensure a suitably level surface for fixing. Tamped or uneven finishes should firstly be smoothed using Ardex S21 Pourable Adhesive. Large hollows or imperfections (over 10mm deep) should be made good using the same material to which sharp sand is added.

Fixing

Prior to fixing please ensure that sufficient preparation for tiling has been made as described in *Technical Data Sheet No. 1* and, where necessary, provision is made for any required movement joints as described in *Technical Data Sheet No. 2*.

For level surfaces and lightly sloping areas fixing should be carried out using Ardex S21 Pourable Adhesive used in accordance with manufacturer's instructions.



S21 should be applied to the base using a notched trowel (8 - 10mm) ensuring tiles are solidly bedded. There is no need to butter the tile backs. Joint widths of 6mm should be provided for subsequent grouting. The adhesive will be sufficiently set to allow grouting and light foot traffic after only 3 hours at 20°C.

For sloping areas it is recommended that a non-slump, cement-based adhesive is used. Ardex X7 R is highly recommended in such instances. This is applied as above. Full details on fixing can be found in *Technical Data Sheet No. 7*.

Cutting

Ruabon paving tiles are vitrified and extremely tough. The recommended method of cutting is to use a commercial tile cutting machine with a water-cooled diamond blade. It is possible to perform straight cuts with a heavy-duty standard tile cutter but some product breakages will be inevitable by this method. An allowance of 10% for cutting and breakages should be made when calculating required quantities.

Grouting

When the adhesive is fully set grouting of the tiles should be carried out using Ardex FL Rapid Setting Flexible Grout used in accordance with manufacturer's instructions.

Using a rubber squeegee or rubber backed trowel work the grout thoroughly into the joints ensuring they are completely filled.



Remove excess grout as work proceeds. Any grout residues can be removed from the tile face by wiping off with a damp sponge up to 30 minutes after application at 20°C.

Post-Fix Cleaning

When grout is fully hardened tile faces should be cleaned off using **HG Extra** diluted at 1:4 with water. Allow to work for a few minutes, scrub lightly with a scotchbrite type sponge or stiff-bristled brush, and then rinse with copious amounts of clean water.

There is no need to apply any sealer, polish or other substance to the finished surface. Tiles can be kept clean using a suitable neutral pH detergent or by pressure washing.

Paving Tile Fixing Specification 2

Paving Tile Adhesive & Grout Coverages

Ardex S21 Pourable Adhesive

Coverages below are based on a level, prepared base and are given for two sizes of notched trowel. Bed thickness should be given consideration at the design stage with regards to finished levels of installation.

An 8mm notch will give a bed thickness of approximately 2.8mm.

An 10mm notch will give a bed thickness of 3.5mm.

Notch Size	KG/Sq.M	Sq.M per 22KG bag
8mm	5	4.40
10mm	6.2	3.55

Ready Reckoner - Illustrates number of 22KG bags of S21 adhesive required.

Notch Size	Approximate Project Area - Sq. M					
	5	10	20	30	50	100
8mm	1	2	5	7	11	23
10mm	1	3	6	8	14	28

Ardex FL Flexible Grout

Coverages are based on recommended 6mm grout joint width.

Paving Tile	KG/Sq.M	Sq.M per 22KG bag
194 x 94mm	2.98	3.69
194 x 194mm	1.95	5.64
94 x 94mm	2.74	4.01

Ready Reckoner - Illustrates number of 11KG bags of FL Grout required.

Paving Tile	Approximate Project Area - Sq. M					
	5	10	20	30	50	100
194 x 94mm	2	3	6	9	14	28
194 x 194mm	1	2	4	6	9	18
94 x 94mm	2	4	8	11	19	37

FL Grout is also available in 5KG bags

For detailed application specifications or further information on fixing products please contact Ardex Technical Department on 01440 714939