

Technical Data Sheet

Date of compilation: 09/09/2021

ARC SELF-LEVEL

DESCRIPTION

Arc Self-Level Floor Levelling Compound is a cement-based, protein-free, subfloor smoothing underlayment, giving a consistently level screed from a feather-edge up to 6mm thick or 8mm with the addition of Arc Latex Admixture. Arc Self-Levellevelling Flooring Compound incorporates specially blended cements, graded sands and organic super-plasticisers, which with the addition of the water, give the ideal properties for application to masonry based floor surfaces such as tamped or worn concrete and sand/cement floor screeds. On non-porous floors it should be mixed with Arc Latex Liquid rather than water to give improved adhesion to the substrate and enhanced abrasion and point-load resistance.



PROPERTIES:

- Gives a free flowing mix
- Provides a smooth level finish on rough and uneven surfaces
- Protein free

USES:

For smoothing screeds and a variety of floor surfaces. Arc Self Level is ideal for preparing a surface prior to the installation of a new covering. It is suitable for use on screeds, concrete, floated concrete, backer boards and underfloor heating (when mixed with Arc Latex Admixture). It can be applied to a depth of 6mm in one application with water addition or 8mm when adding Arc Latex Admixture.

SUBSTRATE PREPARATION

Surfaces must be clean, firm, dry, free from dust, dirt, oil and grease. Remove any loose or flaking layers. Laitance should be removed from concrete surfaces. The substrate must be strong enough to support the weight of the leveller, adhesive and covering. Sub-floors directly to earth must have a damp-proof membrane. Underfloor heating must be switched off 48 hours prior to application. Once Self-Level has been applied, allow 7 days before switching the underfloor heating back on, initially at a low temperature, increased slowly on a daily basis.

Technical Data Sheet

Date of compilation: 09/09/2021

ARC SELF-LEVEL

CONCRETE/SCREEDS:

Ensure new concrete is confirmed dry via consistent moisture readings across the whole surface. Sand/Cement screeds must have a moisture reading of less than 75% RH before work can commence, If it is a new screed, allow 1 day per mm for drying. Remove any laitance from the surface mechanically and remove all dust ideally by vacuum. It is necessary to prime sand/cement screeds to maintain the flow life and prevent air bubbles rising to the surface. Prime with Arc Tilers Primer diluted 3 parts water to 1 part Primer. Very porous substrates will require more than one coat.

ANHYDRITE/GYPSUM SCREED:

Ensure the Anhydrite/Gypsum screed is confirmed dry via consistent moisture readings across the whole surface. Anhydrite screeds must have a moisture reading of less than 75% RH before work can commence. If it is a new screed, allow 1 day per mm for drying. Remove any laitance from the surface mechanically and remove all dust ideally by vacuum. Anhydrite/Gypsum screeds must be sealed prior to applying Self-Level by applying 2 coats of Arc Tilers Primer, the first diluted 3 parts water to 1 part Primer followed by a neat coat. Allow to dry in between coats.

PLYWOOD:

Plywood must be 18mm (minimum), exterior grade, screwed (not nailed) to the substrate at 150mm centres. Ensure there is sufficient ventilation beneath substrate and that the substrate is strong enough to support the weight of the leveller, adhesive and the final covering being applied. Make sure surface is free of loose dirt and dust. Exposed edges and joints must be primed with neat Arc Tilers Primer. Prime the remainder of the substrate with Arc Tilers Primer diluted 3 parts water to 1 part Primer.

NON-ABSORBENT SURFACES:

Follow the instructions on Arc Tilers Primer Plus. If using another recommended primer follow the manufacturer's instructions.

MIX PREPARATION

Arc Self-Levelling Flooring Compound, depending upon the surface type, should be added to water or Latex Liquid in a clean container whilst mechanically stirring with a high-speed paddle to give a smooth, consistent and readily pourable levelling slurry. The recommended mixing proportions are 4 litres of water to 20kg powder. It should be mixed thoroughly to yield a smooth flowing slump-free slurry. Do not add more water than is recommended, as this may prolong drying, lead to surface dusting and significantly reduce the compressive strength of the hardened screed. Part-used levelling compound should never be "freshened up" with later water additions, but should always be discarded once it appears to lose workability.

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Pour the freshly mixed levelling compound onto the prepared surface and use a straight edged steel float to ensure the compound is evenly spread into all areas and corners. The Self-Levelling Compound will flow and smooth out trowel marks for about 15 to 20 minutes before it begins to firm up. The optimum application thickness for this product is 3-6mm, but depths of 8mm can be achieved with the addition of Arc Latex Admixture. In ideal conditions (20°C), the Self-Levelling Compound will remain flowable for 20 minutes and take light traffic after 4 hours and will be fully set after 24 hours.

Tools must be cleaned in water thoroughly immediately after use. SELF-LEVEL MUST BE LEFT TO DRY BEFORE APPLYING THE FINAL DECORATIVE SURFACE FLOORING. This is typically after 3 hours for tiles and 24 hours for soft flooring, however, it can vary and can be faster depending on the choice of surface flooring. The critical moisture content for the flooring in question must be observed. The use of spiked roller will help remove entrapped air and will improve the surface finish.

SUITABLE SUBSTRATES

- Concrete
- Floated Concrete
- Screeds
- Backer Boards
- Underfloor Heating

TECHNICAL DATA

Pot Life	Set Time	Coverage	Depth	EN
20 min	3 hours	8m ² /bag @ 1.5mm	up to 8mm	13813:2002 CT-C16-F4

You can use our free online floor levelling calculator at arcbuildingproducts.ie/calculators for an estimator of how much floor levelling compound is needed based on the application depth and the total area.

STORAGE, PACKAGING & LIMITATIONS

This product has a shelf life of 12 months if stored off the ground in its original unopened packaging in normal dry conditions. It is supplied in 20kg multi-ply moisture resistant paper sacks. Do not use below 5°C. Do not use in areas subject to permanent water immersion.

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RECOMMENDED TOOLS

- Suitable Steel Trowel
- Spiked Roller
- Slow Speed Drill & Paddle

HEALTH & SAFETY

For more information and precautions for use refer to the safety data sheet.

NOTE

All products should be sold in accordance with the manufacturer's instructions. The manufacturer cannot be held responsible where conditions of use are beyond our control. Full information and advice is freely available from our Technical Services Department e-mail technical@arcbuildingproducts.ie. Whilst any information contained herein is to the best of our knowledge true and accurate, no warranty is given or implied in connection with any recommendations or suggestions made by us, our representatives, agents, or distributors, as the conditions of use and any labour involved are beyond our control. Our warranty is therefore limited to the quality of supplied product.