

Technical Data Sheet

Date of compilation: 09/09/2021

ARC HIGH-BUILD

DESCRIPTION

Arc High-Build is a free flowing, fast setting, fibre reinforced, protein free, shrink-age compensated cement based formulation, designed for smoothing and levelling sub-floors prior to installation of floor coverings. High Build can be applied from depths of feather-edge to 50mm in one application and is suitable for use on all common substrates including underfloor heating and plywood overlay. High Build is fast setting and is ready to be tiled after 3 hours at 20°C. It is ready to receive floor coverings such as vivyl, linoleum, carpet and resin after 24 hours at 20°C.



PROPERTIES:

- Apply from feather-edge to 50mm in one pour
- Single part, no additives required
- Ideal for underfloor heating and plywood
- Tile after 3 hours
- Fibre reinforced and flexible
- Protein free
- Shrinkage compensated
- Pumpable
- High durability

USES:

For smoothing screeds and a variety of floor surfaces. The high polymer and fibre formulation make High Build ideal for preparing a surface prior to the installation of a new covering. It is suitable for use on all common substrates including: sand/cement screeds, concrete, sound asphalt & bitumen, anhydrite screed, ceramic, quarry & natural stones, underfloor heating, plywood overlay and timber boards. Due to the strength of the formulation, High Build can be applied to a depth of 50mm in one application, ideal when preparing a substrate to lay underfloor heating, wooden block, laminate, ceramic tiles, natural stone, vinyl, parquet, cork, carpet or painting.

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

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directly to earth must have a damp-proof membrane. Underfloor heating must be switched off 48 hours prior to application. Once High Build has been applied, allow 7 days before switching the underfloor heating back on, initially at a low temperature, increased slowly on a daily basis.

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 High Build 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.

MIXING & APPLICATION

Mix by adding powder to water, approximately 4.5 - 5 litres of water to 20kg of High Build. We suggest starting at 4.5 litres of water which can then be increased to a maximum of 5 litres if necessary. Do not exceed 5 litres of water. Exceeding 5 litres of water per unit will result in water bleed and therefore extended drying times and a weakened mix. Mix ideally

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with an electric paddle until you obtain a lump free compound similar in consistency to single cream. When mixed allow to stand for 2 minutes and stir again before application. It will remain workable in the bucket for 25-30 minutes, depending on conditions. Pour a small quantity onto the prepared surface and trowel down lightly. High Build will start to cure 1-2 hours after application. The successive laying of coverings is possible after drying (12-24 hours depending on the ambient temperature and humidity). If you wish to build to a greater depth of 50mm, allow to dry and prime between applications. Setting time will depend on atmospheric temperatures. It will be slowed by lower temperatures and accelerated by higher temperatures. Once applied, the drying process can begin after 10-15 minutes depending on the surface porosity and ambient temperature.

Tools must be cleaned in water thoroughly immediately after use. HIGH BUILD 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.

PUMP APPLICATION

High Build is ideal for pump application. Mix in accordance with the pump manufacturer's instructions. Regular flow checks should be carried out. Ensure the water contents are correct and there is no surface separation.

SUITABLE SUBSTRATES

- Plywood
- Anhydrite Screed
- Heated Screed
- Screeds
- Concrete
- Underfloor Heating
- Vinyl Tiles
- Fibre Cement
- Backer Boards
- Existing Tiles
- T&G Floors
- Asphalt Flooring

TECHNICAL DATA

Pot Life	Set Time	Coverage	Depth	EN
20-30 min	2-3 hours	4.2m ² /bag @ 3mm	up to 50mm	13813:2002 CT-C30-F7

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.

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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.

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.