CI/SfB (43) Pr3

**JANUARY 2018**
**PRODUCT DATA SHEET**

# ARDEX A 18

## Screed Bonding Cement with Colour Indicator

### Features

- Produces a slurry ideal for bonding ARDEX Screed Cements
- High adhesion strength maximises the bond between the screed and the substrate
- Colour change reduces the risk of the application of screeds in to dry bonding slurries
- 60 minute pot life
- 15 minute open time
- For internal and external use

GEV-EMICODE® EC 1 PLUS very low emission

bsi. ISO 9001 Quality Management | ISO 14001 Environmental Management | OHSAS 18001 Occupational Health and Safety Management

Reg No. FM 01207 EMS 565427 OHS 628374

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# ARDEX A 18

## Screed Bonding Cement with Colour Indicator

**DESCRIPTION**
ARDEX A 18 is a green powder with aggregates and specially formulated additives which, when mixed with water, produces a slurry ideal for bonding ARDEX Screed Cements.

The bonding slurry changes colour as it dries, indicating if it remains open to receive the ARDEX Screed Cement.

**USE**
ARDEX A 18 is used for producing bonding slurries for application over concrete and cement/sand screeds. It is suitable for internal and external use, including swimming pools.

ARDEX A 18 can also be used for joining daywork joints when a new bay is laid against a set and hardened screed, including screeds with underfloor heating systems.

**SURFACE PREPARATION**
The substrate may be dry or damp (with no surface water) but must be rigid, clean and free of dust, grease and other barriers to adhesion. The use of ARDEX DGR Degreaser is recommended for the removal of oils, waxes and any other barriers to adhesion, from the substrate. Concrete surfaces must be prepared using suitable mechanised equipment to expose the coarse aggregate and to remove all barriers to adhesion. All surface coatings must be removed prior to application.

**MIXING**
Add the ARDEX A 18 powder to clean water in a clean container, whilst stirring and mixing thoroughly to give a smooth, lump-free paste. The use of an ARDEX mixing paddle with a 10mm chuck variable speed electric drill makes light work of mixing.

The mixing proportions by volume are: 3 parts ARDEX A 18 powder to 1 part water.

A 25kg bag of ARDEX A 18 powder requires approximately 5.75 litres of water.

The mixed ARDEX A 18 slurry has a working time of approximately 60 minutes. Once the mortar starts to stiffen/set, do not add additional water to the mix.

**COVERAGE**
Material requirement is approximately 1.5kg of ARDEX A 18 powder per $m^2$ per mm application thickness i.e. approximately 11.1$m^2$ at 1.5mm thick per bag.

**APPLICATION**
Apply ARDEX A 18 to the substrate with a brush to a minimum thickness of 1.5mm.

The screed cement must then be placed and compacted *'fresh in fresh'* whilst the bonding slurry is still wet and workable; this is indicated by a dark green colour. After approximately 15 minutes the colour changes to light green, indicating the slurry has dried and an additional application will be required.

Apply ARDEX A 18 at temperatures above 5°C.

**NOTE:** Screeds should be applied in accordance with BS 8204: Part 1 or BS 5385: Part 3.

**PACKAGING**
ARDEX A 18 is packed in paper sacks incorporating a polyethylene liner - net weight 25kg.

**STORAGE AND SHELF LIFE**
ARDEX A 18 must be stored in unopened packaging, clear of the ground in cool, dry conditions and protected from excessive draught. If stored correctly, the shelf life of this product is 12 months from the date shown on the packaging.

**NOTE:** For the latest technical or health and safety data on this product, consult the current technical or health and safety data sheet online at **www.ardex.co.uk**

**TECHNICAL DATA**

| | |
|---|---|
| Bulk density of powder | approx. 1.5kg/litre |
| Weight of fresh mortar | approx. 1.8kg/litre |

***COMPRESSIVE STRENGTH***

| | |
|---|---|
| After 1 day | approx. 8 $N/mm^2$ |
| After 7 days | approx. 13 $N/mm^2$ |
| After 28 days | approx. 26 $N/mm^2$ |

***TENSILE BENDING STRENGTH***

| | |
|---|---|
| After 1 day | approx. 2 $N/mm^2$ |
| After 7 days | approx. 3 $N/mm^2$ |
| After 28 days | approx. 7 $N/mm^2$ |

| | |
|---|---|
| Suitable for underfloor heating | Yes |

**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 up date 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.

Country specific recommendations, depending on local standards, codes of practice, building regulations or industry guidelines, may affect specific installation recommendations.

**TECHNICAL ADVICE HELPLINE**
**01440 714939**

**ARDEX online**
**www.ardex.co.uk**