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# ARDEX WJ 50

## Non Shrink Coloured Wide Joint Grout

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Improved colour consistency - special additive to combat efflorescence

Excellent workability - easy to apply and clean off

Ideal for use in joints from 5mm up to 50mm

Non Shrink - ideal for use up to 50mm with cobble stones without shrinkage

Suitable for internal and external, wall or floor applications

Available in a range of colours

Use ARDEX WJ50 White in swimming pools with the addition of ARDEX Grout Booster

Low VOC content - meets Green Building Council of Australia Green Star IEQ-13 requirements

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# ARDEX WJ 50

## Non Shrink Coloured Wide Joint Grout

### DESCRIPTION

ARDEX WJ 50 is a sanded, cement-based grout for internal or external wall and floor tiling. It is ideal for use in joints from 5mm up to 50mm wide without shrinking. A special additive is included to combat efflorescence and achieve superior colour consistency. ARDEX WJ 50 is exceptionally easy to use, available in a range of colours and is suitable for both commercial and domestic applications.

### FOR GROUTING (TILE TYPES)

Ceramic tiles, terrazzo, slate, quarry tiles and natural stones (excluding dimensionally unstable or moisture sensitive).

### PREPARATION

Ensure joints are clean and free from dust, excess adhesive and bedding mortar. With porous tiles or hot conditions, dampen joint and tile edges with water (but not so wet that water remains in the joints) before grouting to avoid dehydration of the grout. Do not grout until the adhesive has set firmly. All 'spacers' must be removed from joints.

Prior to grouting, it is advisable to check ease of cleaning with tiles that have a textured or matt surface.

### MIXING

ARDEX WJ 50 powder is added to clean water in a clean container whilst stirring thoroughly to give a lump free, firm, low slump mortar. Allow to stand for 2 minutes and remix prior to application. A 20kg bag of ARDEX WJ 50 requires approximately 3.6 litres of water. Grout may be re-stirred occasionally, but do not add additional water.

The pot life of the mixed mortar is approximately 1 hour at 23°C and 50% relative humidity. For swimming pools and use over timber floors, mix ARDEX WJ 50 with approximately 4 litres of undiluted ARDEX Grout Booster.

### APPLICATION

Work grout into the joints using a rubber trowel. Compact the grout firmly into the joints ensuring they are completely filled, minimising the amount left on the tile surface. Allow the grout to firm up in the joint before clean-up. Wipe tile surface with damp dense sponge, working diagonally across tile joints. Use a minimum amount of water to avoid water float and/or shade

variation, efflorescence and shrinkage. Any dry film remaining on the tile surface can be removed when the grout has hardened in the joints by polishing the tile surface with a dry cloth, making sure no smears are left on the surface. For best results in warm conditions, keep the joints damp with clean water after hardening begins to ensure correct hydration/curing.

In exterior conditions it is essential to provide protection from all extremes of climate during the whole fixing and grouting operation and for as long as possible afterwards. All tools should be cleaned with water immediately after use.

### DRYING TIME

Approximately 24 hours at 23°C and 50% relative humidity. Grout joints can be sealed once fully dried, usually after 24 hours. Allow longer for dense tiles, lower temperatures or high relative humidity.

### PACKAGING

ARDEX WJ 50 is packed in poly bags and polylined paper sacks – net weight 5kg and 20kg.

### SHELF LIFE

ARDEX WJ 50 has a shelf life of not less than 12 months for 20kg and not less than 24 months for 5kg when stored in the original unopened packaging, in a dry place at 23°C and 50% relative humidity.

### Pay attention to the following:

Do not use ARDEX WJ 50 for chemical resistant joints, use ARDEX epoxy grouts.

ARDEX WJ 50 has special additives to reduce efflorescence, this may still occur at low temperatures and wet conditions, especially in external applications. The effect, whilst more noticeable in dark coloured grouts, is also evident in the discolouration of lighter grouts. Keeping the amount of water used in the mixing and clean up of grouts to a minimum will reduce initial efflorescence.

ARDEX does not guarantee against shade variations and efflorescence caused by factors beyond its control, including nature of cement, job site conditions, finishing techniques and uneven drying conditions.

Porous face tiles e.g. terracotta, should be sealed prior to grouting to prevent staining.

In swimming pool applications, colours may bleach over a period of time. Use ARDEX WJ 50 White mixed with undiluted

ARDEX Grout Booster. The chemical balance of swimming pools must be maintained, full cure and ready for chemicals after 14 days. For public pools or spas ARDEX epoxy grouts are recommended.

Some polished or stone surfaces may be prone to scratching, always conduct a trial application prior to use.

For expansion or movement joints, use ARDEX silicone sealant.

### SAFETY PRECAUTIONS

This product is considered non dangerous in normal usage. The presence of cement in the product gives an alkaline mortar which may cause some irritation if prolonged contact with skin takes place.

Avoid contact with skin and eyes; in case of contact with the eyes, rinse immediately with plenty of water and seek medical advice; wear suitable gloves and eye protection and keep the product out of the reach of children. Avoid generation of airborne dust during mixing. If swallowed do not induce vomiting, give a glass of water and contact a doctor.

For further material safety data, consult the latest Material Safety Data Sheet.

### TECHNICAL DATA

Colours: Off White, Mid Grey, Light Grey, Charcoal, Sand Beige, Neutral

Mixing Ratio: Approx 3.6L water per 20kg powder

**Application Properties** at 23°C and 50% RH

Pot Life: 1 hour

Drying Time: Approx. 24 hours

Underfloor Heating: Yes

### Mechanical Properties (AS 4992)

Compressive strength, 28 days: > 15 MPa

Flexural strength, 28 days: > 4 MPa

Classification: CG1

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May 2010

### COVERAGE

Coverage will vary according to tile size, joint width and depth, as well as the method of application and on site conditions. Allow an additional 15 - 20% for wastage.

Tile Size (mm)			Coverage in kg/m <sup>2</sup>			
			Joint Width			
length	width	depth	8mm	10mm	15mm	20mm
200	200	10	1.6	2.0	2.9	3.9
300	300	10	1.0	1.3	2.0	2.6
400	400	10	0.8	1.0	1.5	2.0
500	500	10	0.6	0.8	1.2	1.6
600	600	10	0.5	0.7	1.0	1.3