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# ADICEM FLOW

**Self-leveling mortar for large surfaces**

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Cement-based

Levelling Compound for levelling and smoothing

For thickness from 1 mm to 15 mm

Walk on after 2-3 hours

A single layer prepares the surfaces to be covered

Crack free even in 15mm layers

No grinding required

Pumpable

Indoor



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ISO9001 certified company

# ADICEM FLOW

## Self-leveling mortar for large surfaces

### Areas of application:

Filling, smoothing and levelling of concrete, sand cement screeds, anhydrite and other substrates prior to laying of tiles, natural stone and light floor coverings in residential and commercial buildings.

Selflevelling, pumpable, crack free even in thick layers.

Internal only.

### Description:

Grey powder with special cements, easily dispersible resin powders and selected fillers and special additives.

When mixed with water the result is a supple, flowing self-smoothing mortar which can be worked for approx. 30 minutes and can be walked on after 2-3 hours.

The mortar hardens quickly by hydration and dries without shrinkage becoming a very low-tension compound, in this way is almost crack free.

### Substrate preparation:

The substrate must be dry, firm, load-bearing, free from dust and other release agents. Loose particles should be removed. Standard absorbent substrates must be primed with ARDEX P 51 diluted 1:1 with water. Apply evenly with a soft bristled push broom. Do not use paint rollers, mops or spray equipment. Do not leave any bare spots. Brush off puddles and excess primer. Allow primer to dry (approx. 1 hour) before applying ADICEM FLOW.

Extremely absorbent substrates may require two applications of ARDEX P 51 to avoid the formation of bubbles and pinholes in the ADICEM FLOW. Make an initial application of ARDEX P 51 diluted with 3 parts water by volume. Let dry thoroughly (approx. 1 hour) and install a second application of ARDEX P 51 mixed 1:1 with water as stated above.

Use ARDEX P 82 or ARDEX P4 for non-porous substrates. If ARDEX P82 is used, mix part A (pink) with part B (white) and apply with a short-nap or sponge paint roller, leaving a thin transparent pink coat of primer no heavier than a coat of paint. Do not leave any bare spots. Roll off any areas of excess primer. Allow to dry to a thin, slightly tacky film (min. 1 hour, max. 24 hours). ARDEX P 82 must be applied in a thin layer within 1 hour of mixing.

If ARDEX P4 is used, it will be applied using a short nap roller or brush. Let dry thoroughly (approx. 1 hour) until fine white coat is reached. ARDEX P4 can be applied onto absorbent substrates diluted 15% with water.

In doubt apply trial areas.

### Application:

Clear water is poured into a clean mixing container and whilst stirring vigorously, the powder is mixed in to give a lump free mortar.

Approximately 5,75 -6 litres of water are needed to mix 25 kg of ADICEM FLOW.

At +18 - +20°C the mortar workable for approx. 30 minutes. Lower temperatures lengthen the working time, higher temperatures shorten it.

The mortar spreads easily. It can be applied with a long handled gauging tool with height adjustment for thickness or smoothing trowel.

With ADICEM FLOW, irregularities can be filled easily and it is so fluid that, in general, a subsequent sanding treatment is hardly necessary.

On non-porous substrates, apply at least a 1,5 mm layer.

### Pumping:

In large areas ADICEM FLOW can be pumped. To pump the mortar all suitable pumps such as auger, piston and continuously working pumps with a capacity from 20 to 40 litres of mortar per minute can be used. Lubricate the hoses with a mix of 1 bag of ADICEM FLOW and 8 l of water. The use of cement slurry to lubricate the hoses is forbidden.

If the pumps are not in operation over 30 minutes the hose ,as well as the pump, must be cleaned.

### Layer thickness:

ADICEM FLOW can be applied in a single layer from 1 to 15 mm thickness.

For upper layer thicknesses (up to 50 mm) ADICEM FLOW must be mixed with sand as follows:

Aggregate	Granulometry	Mixing ratio	
		Powder	Aggregate
Washed Sand	0-4 mm.	1 vol.	0,3 vol.

### General rules:

The layer of ADICEM FLOW at temperatures of 18°C - 20°C can be walked on after 3 hours.

Subsequent applications of the same product can be done after drying of the first layer and after priming the dry surface with ARDEX P51 diluted 1:3 with water.

Layers of ADICEM FLOW dry and harden rapidly. Layers up to 10 mm can be covered with water sensible materials after 36 hours (20°C), for thicker layers, drying time will be 72 hours (20°C).

Use ADICEM FLOW in ambient temperatures above +5°C and below +30°C.

The surface layer must be protected from excessively quick drying by the sun or wind. ADICEM FLOW must not be used outdoors and in permanently damp areas.

### Warning:

Contains cement. Reacts alkaline. Irritates the skin. Irritates the eyes. Keep out of the reach of children. Avoid contact with eyes and skin. In the case of contact with the eyes, rinse thoroughly with water and consult a doctor if irritation persists. The contact lenses of the affected person should be removed if they are worn. Gloves and protective glasses should be worn during handling. In the set state, the product is physiologically and ecologically harmless.

Disposal of waste and empty containers must be done in accordance with current local / regional / national / international legislation.

**GISCODE ZP 1 = contains cement, low chromate content.**

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### Technical data

(Based on tests carried out in out laboratory in accordance with Ardex quality standards)

<b>Mixing ratio:</b>	Approx. 5¼-6 l. water : 25 Kg powder, equivalent to 1 vol. water : 3 ½ vol. powder.
<b>Bulk density:</b>	Approx. 1,2 Kg/l.
<b>Fresh mortar density:</b>	Approx. 1,9 kg./l.
<b>Consumption:</b>	Approx. 1,6 kg of powder per m <sup>2</sup> and mm.
<b>Open time (20°C):</b>	Approx. 30 min.
<b>Walkability (20°C):</b>	Approx. 3 hours
<b>Can be covered after:</b>	After mortar application Up to 10 mm: 36 hours. Up to 30 mm: 3 days. Up to 50 mm: 7 days.
<b>Compressive Strength:</b>	After 28 days >35 N/mm <sup>2</sup>
<b>Flexural Strength:</b>	After 28 days >7 N/mm <sup>2</sup>
<b>Suitable for underfloor heating (water):</b>	Yes
<b>Packaging:</b>	Bags of 25 kg.
<b>Storage and Shelf Life:</b>	Approx. 12 months in dry locations and in the original closed packaging.

	
<b>ARDEX CEMENTO, S.A.</b> P.I. Pla de Llerona, c/Holanda, 18 E-08520 Les Franqueses del Vallès – Barcelona T. 93 846 62 52 15 23603 <b>EN 13813:2002</b> <b>ADICEM FLOW</b> Self levelling mortar EN 13813:CT C30F7	
Compressive strength:	≥ 35 N/mm <sup>2</sup>
Flexural strength:	≥ 7 N/mm <sup>2</sup>
Abrasion resistance according to Böhme:	NDP
Tensile adhesion strength:	NDP
pH value:	NDP
Reaction to fire:	E

*We assume the warranty for the perfect quality of our products. Our handling recommendations are based on trials and practical experience; they can, however, only be regarded as general advice without a quality warranty, as we have not influence on work site conditions and the execution of the work.*

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

*Ardex is not responsible for the content of technical files collected on websites other than the official Ardex website ([www.ardex.es](http://www.ardex.es)).*

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