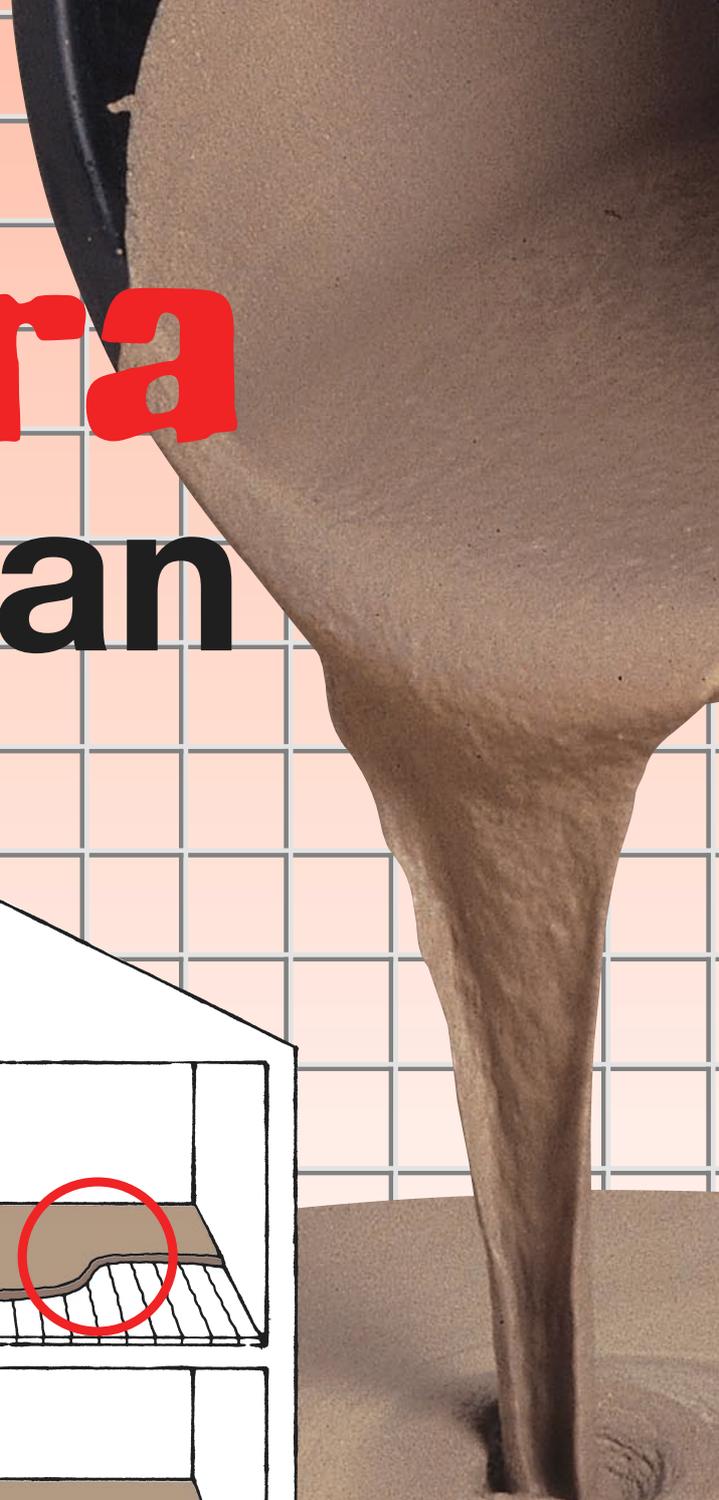
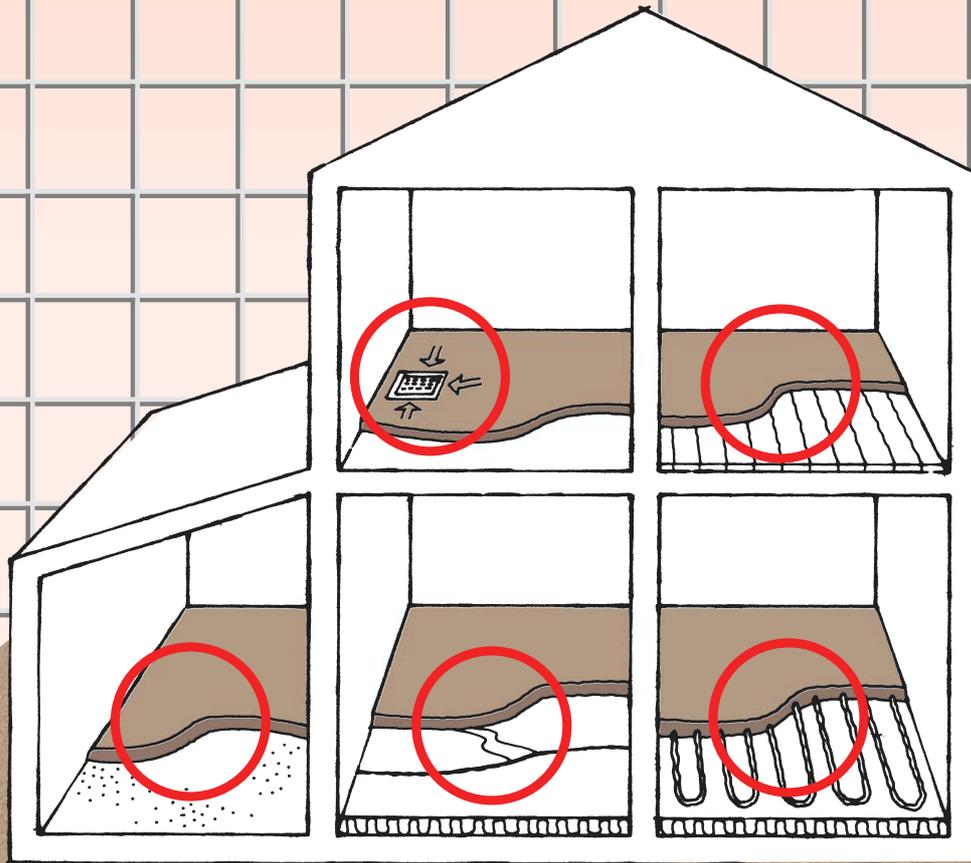


mira **x-plan**



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Fibre-reinforced self-levelling floor compound for smoothing and building up a fall on concrete, plaster, light-weight concrete, wooden board surfaces, ceramic tiles etc. The compound can be applied with hand tools or via a mixing pump.

Applied thickness 2-50 mm



Preparation

The condition of the existing floor has a decisive effect on the final strength of the compound. The surface must be firm, cohesive and free from loose particles, dust, dirt, grease, etc. Any cement slurry film and weak spots in the concrete underlay must be cut or ground away. Loose dust is best removed with a vacuum cleaner, whereas grease, oil, etc. on concrete, painted surface or similar should be removed using – e.g. 7110 base cleaner, high pressure flushing or another effective cleaning method.



Priming

Priming should not be done until the surface is prepared and dry enough that the primer adheres. Porous surfaces must be treated with 1 part 4180 primer thinned with 3 parts water. It must be worked well into the surface with a brush. On impermeable materials such as painted surfaces and ceramic tiles, concentrated 4180 primer must be applied, followed by dry compound powder sprinkled and brushed into wet primer. Wooden floor boards must be primed with concentrated 4180 primer. If x-plan is applied in several layers, primer must be applied to each layer.

The min. ambient temperature is 6 C°, the best 10-18 C°. Coverage: 0,1-0,2 litres of 4180 primer/m².



Mixing

x-plan should be mixed with approx. 4.5 litres of water per 25 kg x-plan. Mixing is preferably done with an electric mixer or a mixing pump. The mixture must be worked for at least 2 minutes, until it becomes of an even and smooth texture. If the mixture is to be used in building up a fall in the floor, the quantity of water can be reduced to 4 litres per 25 kg x-plan. Less water reduces the working time and the flow capacity of the mix.

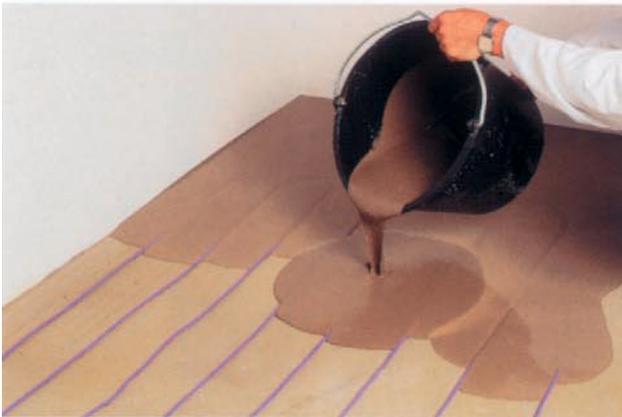
x-plan remains workable for approx. 30 minutes in an ambient temperature of 10-18 C°.

Applying x-plan



Concrete, plaster, light concrete, ceramic tiles, painted surfaces

x-plan must be applied immediately after mixing. It levels itself, but if necessary can be smoothed and spread into corners with a smooth spatula. Thickness on concrete, plaster, ceramic tiles, painted surfaces: 2-50 mm. Thickness on light concrete: 5-30 mm.



Heated floors

x-plan is very suitable for building up thin heated floors. Heating cables must be fastened to a non-flammable underlay with hot-melt adhesive. If an inflammable underlay is used, a layer of x-plan 5 mm. thick under the cables or the use of a 20 mm wire rendering mesh is recommended. A mesh is always recommended where x-plan is to be applied to wooden floor boards. The compound must cover the heating cables by min. 5-10 mm depending on the capacity of the cables and the stability of the underlay.



Finishing

Further surface treatment is possible when the levelling compound has hardened and dried. The drying time will depend on the moisture content of the underlay. Normally, ceramic tiles can be laid after 6-12 hours. At least 12-18 hours should be allowed after a mix has been applied before damp-proofing with 4120 sealer or 4400 multi-coat is applied. When laying vinyl, linoleum etc. follow the suppliers instructions.



Wooden floors

x-plan must be applied immediately after mixing. On chipboard, plywood and floor boards it can be applied directly onto the primed surface. If a wooden surface that has been treated with x-plan is to be covered with a hard substance, e.g. ceramic tiles - special instructions are necessary. Thickness: 5-50 mm.



Building up a fall

The mix (with reduced water content) must be applied along the wall. It will itself flow towards the floor drain. Prevent the mix from flowing down into the drain by fastening some kind of retainer to the floor, e.g. mira planstop - self-adhesive foam plastic strips. When the mix has hardened so that it can be walked on with care, the fall can be adjusted and rendered to match the floor drain.



mira flow test

Place the mira flow tester on a primed and flat surface. Fill the tester to the top with x-plan and then lift the tester so that the measured amount of x-plan is able to flow out freely. When the compound has flowed completely from the tester on its own accord, measure the diameter to which it spreads. With the correct amount of water added, this diameter must be 135-145 mm.

Technical specification

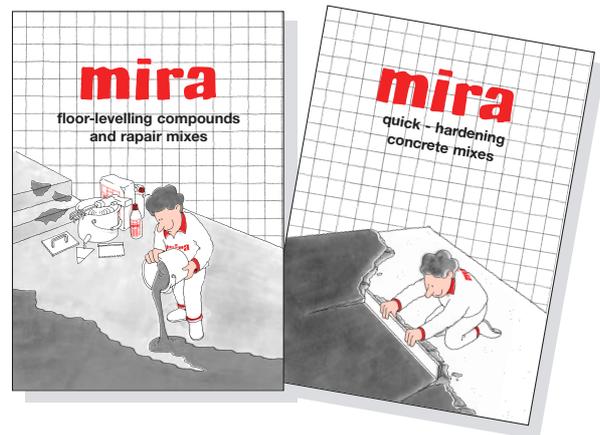
mira x-plan is supplied as a dry product consisting a special cement, sand, bonding agent, plastic, fibre and additives.

Material consumption:	1.7 kg powder/m ² /mm layer thickness
Layer thickness:	2-50 mm
Surfacing:	The hardened mix will accept most types of floor covering, e.g. pvc, linoleum, ceramic tiles, parquet, textile carpeting. Surface finishing with floor paint can be used on areas where traffic is moderate.
Water resistance:	The hardened mix has good moisture resistance characteristics, but is not suitable for use outdoors or in water tanks, swimming pools, etc.
Bending/tension:	approx. 9 MPa
Compression strength:	27 MPa
Adhesion:	> 3.0 MPa
Contraction:	0.3 - 0.5 %
Opening time:	15-20 minutes
Working time:	30 minutes
Hardening time:	Will bear light pedestrian traffic 2 hours after application. Further surface treatment after min. 6 hours.
Dry weight by volume:	1.7 kg/litre
Wet weight by volume:	1.9 kg/litre
Ph:	approx. 11 (wet state)
Protective clothing:	See product data sheet
Flow characteristic:	135-145 mm (mira flow test)

For other compound/concrete applications
– read the brochures:

”mira quick - hardening concrete mixes”

”mira floor-levelling compounds and rapair mixes”



mira

byggeprodukter a/s

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