



ARDEX A 35

Rapid cement

- With ARDURAPID® effect
- Walkable after 3 hours
- Dry and ready for installation after 1 day
- With optimised processing properties
- Working time 60 minutes
- More consistent consistency even with longer mixing times and conveying distances
- Easier distribution and application of mortar
- Long smoothing and rubbing time
- For producing quickly usable cement screeds on insulation layers, on separating layers and in composite structures
- Meets the requirements of ÖNORM B 3732



Area of application

For indoor use, floors.

For producing cement screeds with ARDEX A 35 special cement, which is mixed with sand of 0–8 mm grain size and water to form an earth-moist to soft-plastic screed mortar.

Cement screeds made with ARDEX A 35 can be walked on after just 3 hours, are ready for floor coverings after just 1 day when laid floating on a separating film, and achieve the minimum strengths specified in ÖNORM B 3732 after 1 day.

For the application of floor screeds, the general guidelines for cement screeds, floating, on a separating layer or in a composite layer – ÖNORM B 3732 – apply. The rapid hardening of ARDEX A 35 rapid cement must be taken into account.

Art

Dimension-controlled binder system with special additives for virtually shrinkage- and stress-free hardening and drying, as well as to prevent efflorescence.

Processing

Standard screed mixers are used to mix the mortar. The mixing ratio for a 100-litre mixer is:

- 25 kg ARDEX A 35 = 1 original bag
- 100–125 kg sand 0–8 mm = 15–19 shovels
- 6–11 litres of water, depending on the moisture content of the sand

Mixing and conveying machines suitable for fast-setting screed mixtures, e.g. Putzmeister Mixokret, can be used for ARDEX A 35 cement screed. The following quantities are then added to a 220-litre mixing and conveying tank:

- 50 kg ARDEX A 35 = 2 original bags
- 200 – 250 kg sand 0 - 8 mm = 30 – 38 shovels
- 12–22 litres of water, depending on the moisture content of the sand

Aggregates in accordance with ÖNORM B 3135 and ÖNORM EN 13139 are generally suitable, whereby the grain composition must be in the upper half of the favourable sieve line range, but at least in the usable part of the sieve line range in accordance with ÖNORM B 4710-1.

Do not use any screed additives such as mixed oils, etc. Do not mix with other cements.

The working time of ARDEX A 35 quick-setting cement is approx. 60 minutes. Mixing, application, levelling and smoothing must be carried out quickly. Higher temperatures

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Manufacturer with certified
QM/UM system according to
EN ISO 9001/14001

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shorten, lower temperatures extend the working and setting times.

Screed connections or partial areas are anchored to each other with round steel. False joints and expansion joints must be provided and installed as with conventional cement screeds.

The substrate must be pre-slurried. ARDEX A 18 bonding slurry is used for this purpose. Observe the information in the Technical Data Sheet. The screed mortar must be applied fresh on top of the still moist bonding slurry.

As an alternative, ARDEX A 35 can be mixed with sand in a mixing ratio of 1 : 1 with ARDEX E 100 Wittener Baudispersion diluted 1 : 1 with water to produce the bonding slurry. The bonding slurry must be applied wet on wet to the substrate and brushed in well.

The screed mortar is laid on the still moist bonding slurry. Repair work should be carried out with ARDEX A 35 MIX quick-setting mortar.

Repair work:

To create a strong bond, coat the edges of the old screed with ARDEX FB Casting Resin or ARDEX EP 2000 Multifunctional Epoxy Resin. ARDEX A 35 Quick-Setting Cement is applied to the fresh epoxy resin bonding agent.

In case of doubt, carry out a test application.

ARDEX A 35 Quick-setting Cement must be applied at temperatures above +5°C.

All technical data are laboratory values and refer to a W/C ratio of 0.42 and sand with a grain size of 0 - 8 mm and a sieve line A8 - C8. If the W/C ratio and/or sand differ, a quality test is required. Regular quality testing with the sand actually used is recommended.

Ready for publishing

To check whether the product is ready for laying, which is achieved after 1 day when processed correctly, moisture measurements must be carried out.

Due to its specific properties and composition, the moisture content of ARDEX A 35 Rapid cement cannot be determined with electrical measuring devices, but only with a CM device.

The pressure gauge reading should be taken approx. 1 minute after breaking the ampoule, as waiting longer will result in chemically bonded water being measured, which is irrelevant for subsequent covering.

The product is ready for laying at the following moisture contents:

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unheated	heated	Floor covering
≤ 2.0	≤ 1.8	Stone and ceramic thin-bed coverings
≤ 2.0	≤ 1.8	Stone and ceramic coverings in mortar bed on separating layer
≤ 2.0	≤ 1.8	Stone and ceramic coverings in thick bed
≤ 2.0	≤ 1.8	Vapour-permeable textile floor coverings
≤ 2.0	≤ 1.8	Vapour-retarding textile floor coverings
≤ 2.0	≤ 1.8	Elastic floor coverings, e.g. PVC, rubber, linoleum
≤ 2.0	≤ 1.8	Parquet flooring

To check the measurement, the pressure gauge is read again after approx. 20 minutes, as with normal cement screeds.

Then subtract approximately 1.5% from the moisture content measured in this way.

Flooring installation

ARDEX A 35 Rapid cement is fully usable after just 1 day. Levelling and filling work can then be carried out, as can the laying of floor coverings, including parquet flooring, tiles and slabs.

For composite screeds that have been applied after pre-slurrying the concrete floor, the entire structure must be allowed to dry before laying the covering.

Application on underfloor heating

When using ARDEX A 35 Rapid cement on hot water underfloor heating, the waiting time before laying floor coverings can be reduced to less than 2 weeks, as ARDEX A 35 Rapid cement reaches its equilibrium moisture content after one day. Three days after application, heating begins with a flow temperature of +25°C, which must be maintained for three days.

The maximum flow temperature is then set and maintained for a further 4 days. Draughts must be avoided.

The surface temperature of the heated screed must not fall below +15°C when laying floor coverings.

ARDEX A 35 Rapid cement can be thermally loaded up to +65°C.

Depending on the heating system, further heating may be necessary.

Bonded lightweight fill

ARDEX A 35 can also be used to produce bonded lightweight fillings:

- for levelling uneven surfaces, height differences and pipes
- for filling cavities, depressions and holes

before installing floor screeds on insulation and separating layers in combination with ARDEX floor screeds.

For layer thicknesses from 10 mm to 300 mm.

Mixing ratio: approx. 37.5 kg ARDEX A 35 : 200 l polystyrene granulate, grain size 5 mm : 16 l water

Working time: approx. 60 minutes at +20°C

Walkability: after approx. 3–5 hours

Drying time: approx. 1 day

Material requirements: approx. 1.6 kg ARDEX A 35 and 8.7 l polystyrene granulate per m²/cm layer thickness

Processing is carried out using mixing and conveying machines (pumps) as used for cement screeds. Do not use excess water!

Please note

For evenly distributed traffic loads in residential construction up to 1.5 kN/m², a nominal floor screed thickness of at least 35 mm is required for cement screed on insulation layers, depending on the compressibility of the insulation layer.

The nominal floor screed thickness for cement screed on a separating layer is also at least 35 mm, and for cement composite screed at least 10 mm.

ARDEX A 35 cannot be used outdoors or in permanently wet areas.

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Note

The information in our safety data sheets must be observed.
For commercial use only!

Zusatzinformation

Handle with care during processing: avoid dust formation and release into the environment.

Dispose of the container and its contents in a sealed state in accordance with applicable local/regional/national/international regulations.

Technical data according to ARDEX quality standard

Mixing ratio approx.	Component A 25 kg powder 25 kg powder	Component B 100 kg sand 125 kg sand	Component C 6 - 11 l Water 6 - 11 l Water	Consistency Mixing ratio 1 : 4 Mixing ratio 1 : 5
Material requirement approx.	Material requirements 3.7 kg 3.1 kg		Condition Per m² and cm with a mixing ratio of 1 : 4 Per m² and cm with a mixing ratio of 1 : 5	
Fresh weight approx.	2,00 kg/l			
Shrinkage class	SW1 (ΔL < 0.2 mm/m) according to DIN 18560-1 / DIN EN 13892-9			
Fast screed class according to ÖNORM B 3732	SE 1			
Classification according to ÖNORM B 3732 Table A.7	SE 1			

Application properties

Processing time approx.	1 Hour(s)
Can be walked on after approx.	3 Hour(s)
Application Ambient conditions	+20°C

Mechanical properties

Bending tensile strength approx.	Time	Bending tensile strength approx. Condition	
	After 1 day	5 N/mm ²	At a mixing ratio of 1 : 4 by weight
	After 3 days	6 N/mm ²	At a mixing ratio of 1 : 4 by weight
	After 28 days	7 N/mm ²	At a mixing ratio of 1 : 4 by weight
	After 1 day	4 N/mm ²	At a mixing ratio of 1 : 5 by weight
	After 3 days	5 N/mm ²	At a mixing ratio of 1 : 5 by weight
Compressive strength approx.	After 28 days	6 N/mm ²	At a mixing ratio of 1 : 5 by weight
	Time	Compressive strength of approx. Condition	
	After 1 day	25 N/mm ²	At a mixing ratio of 1 : 4 by weight
	After 3 days	35 N/mm ²	At a mixing ratio of 1 : 4 by weight
	After 28 days	45 N/mm ²	At a mixing ratio of 1 : 4 by weight
	After 1 day	20 N/mm ²	At a mixing ratio of 1 : 5 by weight
	After 3 days	30 N/mm ²	At a mixing ratio of 1 : 5 by weight
	After 28 days	35 N/mm ²	At a mixing ratio of 1 : 5 by weight

Product details

Suitable for underfloor heating	Yes
PH value approx.	11
Corrosion behaviour	Does not contain any components that promote corrosion on steel
Labelling according to GHS/CLP	See relevant safety data sheet
Labelling according to ADR	See relevant safety data sheet
EMICODE	EC 1 PLUS = very low emissions PLUS



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GISCODE	ZP1 = cementitious product, low chromate content
Packaging	Sacks containing 25 kg net
Storage	Can be stored in dry rooms for approx. 12 months in the original sealed container.