



ARDEX W 820

Universal wall filler

- Can be applied by hand, roller or spray
- Variable water adjustment
- High stability
- Zero extraction possible
- For layer thicknesses from 0 to 20 mm



Area of application

For indoor use, walls and ceilings.

- Filling and smoothing wall and ceiling areas
- For producing surfaces of finish levels 1–4 according to ÖNORM B 3415 on gypsum and gypsum fibre boards
- Efficient filling and smoothing using spray or roller application
- Filling joints and filling drywall systems and precast concrete ceilings

Art

White powder made from gypsum, special additives, fillers and plastics.

ARDEX W 820 has high filling power and can be applied easily and quickly in thin and thick layers.

ARDEX W 820 is permeable to diffusion and is suitable for use with paints, design techniques and wallpaper.

Preparation of the surface

The substrate must be dry, stable and free of release agents.

Substrates	without primer	with primer
Aerated concrete	☒	
Concrete		ARDEX P 51 ARDEX P 52
Brickwork	☒	
Gypsum board	☒	
Sand-lime brick	☒	
Gypsum filler	☒	
Gypsum and gypsum fibre boards	☒	
Cement fibre boards	☒	
OSB board ÖNORM EN 300		ARDEX P 82 ARDEX P 4 READY
Wood chipboard P4 - P7		ARDEX P 51 ARDEX P 52 ARDEX P 82 ARDEX P 4 READY
Tiles and slab coverings		ARDEX P 4 READY ARDEX P 82
Natural stone		ARDEX P 4 READY ARDEX P 82
Acrylic lacquer coatings and alkyd resin coatings		ARDEX P 4 READY ARDEX P 82
Alkyd resin coatings		
waterproof, scrub-resistant and washable matt dispersion paints		ARDEX P 4 READY ARDEX P 82

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

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Latex paints		ARDEX P 4 READY ARDEX P 82
mineral rubbing plasters	☒	
MG 2 lime-cement mortar	☒	
MG 3 cement mortar	☒	
MG 4 Gypsum mortar	☒	
Synthetic resin plasters		ARDEX P 4 READY ARDEX P 82

Processing

ARDEX W 820 is suitable for all common processing methods. It can be processed using mixing and delivery pumps as well as suitable airless equipment. For manual processing, it can be applied by hand or roller.

Manual application

For manual application, mix the levelling compound with 11.0–12.5 litres of water as described above. After a curing time of one minute to three minutes and thorough stirring, the levelling compound is ready for use.

Machine application

For processing with airless equipment, it is recommended to use only freshly mixed material. The amount of water added should be adjusted to produce a smooth, thin levelling compound. For processing with feed pumps and airless devices, mix the ARDEX W 820 powder in a narrow mixing container (40 l hoboock) with a spiral stirrer, e.g. Colomix WK 140 or equivalent stirrer types, to form a smooth, lump-free mortar. To do this, first add approx. 10–14 litres of water to the mixing container and then stir in 25 kg of ARDEX W 820 powder.

When using mixing pumps/sprayers, work must not be interrupted for more than 15–30 minutes (depending on the temperature). Clean the machine if work is interrupted for longer periods.

Roll application

For roller application, mix the levelling compound as

described above with 15–16 litres of water. After a setting time of 1–3 minutes and stirring again, the levelling compound should be applied evenly with a nylon roller with a pile height of 21 mm or with a nylon fibre plastering roller in a cross pattern.

Depending on the absorbency of the substrate, layer thickness and site conditions, the filler can be levelled and smoothed immediately or after a certain standing time.

ARDEX W 820 Universal Wall Filler should be applied at temperatures above +5°C. Low temperatures prolong the processing time, high temperatures shorten it.

Practical tip

A painter's fleece can be laid in all of the application methods mentioned. To achieve an even layer thickness, comb the applied mortar with an R1 notched trowel. A suitable painter's fleece should then be laid while still fresh, in accordance with the manufacturer's instructions.

For sanding the surface of ARDEX W 820, we recommend abrasives with a grain size of 180-240 from MIRKA and Festool.

*In accordance with ÖNORM B 3415 on gypsum and gypsum fibre boards

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	Component B	Consistency
	11 - 12.5 l Water	25 kg powder	
	1 Part water	2 RT powder	
	10 - 14 l Water	25 kg powder	Machine processing – depending on the performance requirements of the machine
	15 - 16 l Water	25 kg powder	Roll application
Material requirement approx.	Material requirements	Condition	
	1.0 kg powder per m ² and mm	With 11.0 - 12.5 litres of water	
	0.9 kg powder per m ² and mm	With 15.0 - 16.0 litres of water	
	280.43 G per m ²	For implementation stage 1	
	142.57 G per m ²	For implementation level 2	
Execution stage	Consumption	Execution stage	
	0.3 kg/m ²	1	
	0.1 kg/m ²	2 based on 1	
	0.2 kg/m ²	3 based on 2	
	1.0 kg/m ²	4, full-surface filling per mm	
Bulk density approx.	1,10 kg/l		

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Fresh weight approx.	1,50 kg/l
Product classification	Thin-layer plaster Gypsum dry mortar C6/20/2 according to DIN EN 13279-1 Joint filler for joint filling without joint covering strips, type 4B, according to EN 13963 Non-combustible building material, Class A1 according to EN 13501, Part 1
Application properties	
Processing time approx.	3 Hour(s)
Paint coating and gluing work	After drying
Application Ambient conditions	+20°C
Mechanical properties	
Bending tensile strength approx.	Bending tensile strength approx. 2 N/mm ²
Compressive strength approx.	Compressive strength of approx. 4 N/mm ²
Product details	
PH value approx.	7
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
Packaging	Sacks containing 25 kg net
Storage	Can be stored in dry rooms for approx. 12 months in the original sealed container.

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