



ARDEX WSZ

Rapid hardening cement 32.5 R-SF

- Cement of strength class 32.5 R with early high strength properties
- Generally approved by the building authorities through the DIBt, Berlin
- Approval no. Z-3.12-1206
- For producing mortar and concrete with early initial strength



Area of application

Production of mortars with early initial strength for fixing dowels and anchors for load-bearing structures that require building authority approval.

For example:

- Facade cladding
- Roof elements
- Scaffolding brackets
- Stair stringers
- Steps
- suspended ceilings
- Ceiling cladding
- Railings
- Handrails
- Window sills
- Sanitary facilities
- Heating systems
- Shelves, etc.

Manufacture of concrete and mortar for repairing concrete and reinforced concrete components in accordance with DIN 1045, which are not exposed to thermal stresses exceeding the usual natural climatic temperatures:

- Pillars
- Carriers
- Support
- Ceiling slabs
- Wall panels
- Concrete soles
- Facade elements

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- Road surfaces
- Runways
- Tunnel components
- All types of precast concrete elements, etc.

The early initial strength of the concrete or mortar allows moulds and formwork to be removed and precast elements to be transported after just 2 to 4 hours.

Production of fast-hardening concrete and mortar for laying work and fastening measures for:

- Pipes
- Rails
- Rods
- Posts
- Supports
- Gate brackets
- Fence posts
- Sign posts
- Foundations
- Wall and floor slabs
- Pavement slabs, etc.

Production of floor screeds that can be walked on quickly in outdoor and wet areas.

For outdoor and indoor use.

Processing

ARDEX WSZ Rapid hardening cement 32.5 R-SF is processed as usual in concrete and mortar technology. When mixed with

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water, it hardens both in air and under water and remains solid under water.

Due to the short setting times, preliminary tests must be carried out before applying the dowel mortar and concreting to ensure that the mortar or concrete can be properly applied and compacted under the given conditions.

Deviating from the behaviour of standard cements:
Slightly lower water requirement for the same slump.

Short setting time.

High initial strength even at low temperatures.

Since the use of concrete admixtures can have effects other than those expressed by the effect group of the concrete admixture, concrete additives may only be used if they have a test mark from the German Institute for Building Technology, their effectiveness has been proven with ARDEX WSZ Rapid hardening cement 32.5 R-SF and the suitability tests required by DIN 1045 have been carried out in individual cases.

Due to the rapid setting of ARDEX WSZ Rapid hardening cement 32.5 R-SF after the addition of water, the mixing time for achieving a homogeneous concrete mortar mixture should be as short as possible. Usually 1 to 2 minutes are sufficient. Further processing of the finished concrete mortar mixture, such as emptying the mixer, transport to the processing site and placing the fresh concrete, as well as finishing work such

as compacting, levelling, smoothing and rubbing, must be carried out within the working time. Residues of the concrete mixture must be removed from the mixer immediately.

Please note

Temperatures above +20°C accelerate setting. In such cases, mix with cool raw materials, especially cold water.

Low temperatures have such a minimal effect on the start of setting that even at temperatures below +10°C, the early strength of the concrete mortar mix is quickly achieved.

ARDEX WSZ Rapid hardening cement 32.5 R-SF develops a high amount of hydration heat during setting, which can accelerate strength development in larger cross-sections.

Note

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

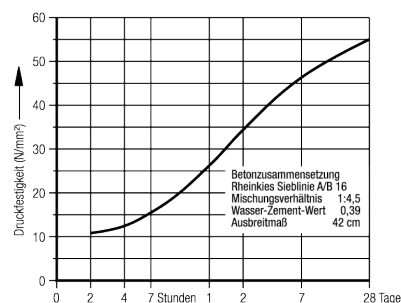
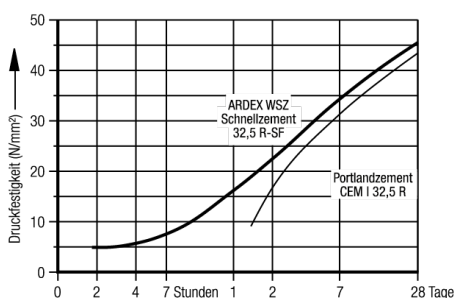
Additional information

Proceed carefully during application: 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

Bulk density approx.	1,10 kg/l
Grinding fineness	Specific surface area according to Blaine, in accordance with EN 196, Part 3, 5300 +/- 500 cm ² /g
Start of solidification	According to EN 196, Part 3, after 20 minutes at the earliest
Room resistance	In accordance with EN 196, Part 3, is given
Graphene Compressive strength	



Mechanical properties

Compressive strength of concrete cubes 10 x 10 x 10 cm, according to DIN 1048

Time

After 4 hours
After 7 hours
After 1 day
After 2 days
After 7 days
After 28 days

Compressive strength of approx.

12 N/mm²
15 N/mm²
26 N/mm²
34 N/mm²
46 N/mm²
55 N/mm²

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Compressive strength of standardised mortar according to EN 196, Part 1	Time	Compressive strength of approx.
	After 2 hours	4 N/mm ²
	After 1 day	16 N/mm ²
	After 2 days	23 N/mm ²
	After 7 days	34 N/mm ²
	After 28 days	45 N/mm ²
	After 90 days	47 N/mm ²

Product details

Labelling according to GHS/CLP	See relevant safety data sheet
Labelling according to ADR	See relevant safety data sheet
GISCODE	ZP1 = cementitious product, low chromate content
Packaging	Bags containing 25 kg net
Storage	Can be stored in dry rooms for approx. 12 months in the original sealed container.