

REPAIR CONCRETE

RB/50 REPAIR CONCRETE (0-5 mm)

TEST CERTIFICATES AND SUPPORTING DOCUMENTS

- › Repair concrete and rapid concrete type C acc. to TL BEB-StB 2015
- › High frost-deicing salt resistance - Verification by CDF procedure
- › Product acc. to EN 131813 "Cement-based screeds for wearing layers"
- › High penetration resistance against water-polluting substances - Verification by test certificate
- › Factory production control acc. to DIN EN 13813
- › Company certification acc. to DIN EN ISO 9001:2015

PROPERTIES

- › Consistency class of F2 to F3 = plastic to soft (DIN EN 206-1/DIN 1045-2)
- › Reaches full strength after as little as 1.5 hours, including in low temperatures
- › Very high early and final strengths
- › High frost and frost-deicing salt resistance after 12 hours and after 28 days (CIF and CDF test procedures)
- › Complies with the requirements of building material class A1 (non-combustible) as specified under decision 2000/605/EC of the European Commission dated September 26, 2000 (published in the official journal L258)

AREAS OF APPLICATION

- › Structural maintenance of concrete traffic surfaces
- › Repair of:
 - Concrete runways, floor slabs and concrete areas
 - Hall floors
 - Airfields, taxiways and aprons
 - In the field of track construction "Solid track"
 - Runway

MOISTURE CLASSES BASED ON CONCRETE CORROSION FROM ALKALI-SILICIC ACID REACTIONS

Moisture class	WO	WF	WA	WS
RB/50	•	•	•	•

The aggregates in PAGEL®'s products comply with the requirements of alkali sensitivity class E1 from non-hazardous sources specified under DIN EN 12620.

EXPOSURE CLASS ALLOCATION ACC. TO: DIN EN 206-1 / DIN 1045-2

XO	XC	XD	XS	XF	XA*	XM
1 2 3 4	1 2 3	1 2 3	1 2 3 4	1 2 3	1 2 3	1 2 3
RB/50	•	•••••	•••	••••	•••••	••

* Having sulfate attack up to 600 mg/l

TECHNICAL DATA

TYPE		RB/50	
Grain size	mm	0-5	
Layer thickness	mm	60-200	
Amount of water	max.	%	10
Processing time approx.	20 °C	min	10
Consumption approx.		kg/m ³	2,200
Fresh mortar raw density		kg/m ³	2,400
Slump flow class	5 min	F2/F3	
Compressive strength	2 h	N/mm ²	≥ 20
	5 h	N/mm ²	≥ 25
	12 h	N/mm ²	≥ 30
	24 h	N/mm ²	≥ 35
	28 d	N/mm ²	≥ 50
Bending tensile strength	2 h	N/mm ²	≥ 3
	5 h	N/mm ²	≥ 4
	12 h	N/mm ²	≥ 5
	24 h	N/mm ²	≥ 6
	28 d	N/mm ²	≥ 8

Note: All fresh and solid mortars are tested at 20 °C ± 2 °C. Higher or lower temperatures result in deviating properties of fresh respectively solid mortars and test results. Depending on the temperature, the consistency can be adapted with a slight reduction of the mixing water.

Storage:	6 months. Cool, dry, free from frost. Unopened in its original container.
Delivery form:	25-kg bag, Euro pallet 1,000 kg
Hazard class:	Non-hazardous material, observe information on packaging.
GISCODE:	ZP1

PROCESSING

PREPARING THE AREAS TO BE REPAIRED:

Vertically cut out and remove the concrete surface of the entire area to be repaired. Seal broken off concrete on the vertical cutting surfaces with **RB/50 REPAIR CONCRETE**.

When repairing concrete roads, set up sliding anchors in transverse expansion joints and connecting anchors in longitudinal joints in accordance with the client's specifications. Prepare underlying substrate for application and lay underlay.

MIXING:

The dry mortar is supplied ready to use and only needs to be mixed with water. Fill the specified amount of water apart from a residual amount into a clean and suitable mixing device (e.g. compulsory mixer). Add the dry mortar and mix for at least 3 minutes. Add the remaining water and mix for at least another 2 minutes until it forms a homogeneous mass.

APPLICATION:

Apply to the prepared area to be repaired, compact and smoothen off. Create required level of roughness using brush strokes.

Temperature range: + 5 °C to + 35 °C

Mixing water: Drinking water quality

FOLLOW-UP TREATMENT:

Apply **O1 EVAPORATION PROTECTION**. **O1** can be applied by brush or sprayed on. Should preferably be applied using spraying devices with ultra-small nozzles that create an even film. The technical data sheet must be observed when using **O1 EVAPORATION PROTECTION**.