

Technical Information Sheet Article No. 0911

Hard Grain

Natural and synthetic minerals
Test Report Nr. 23-20129/69

Range of use

To be used for concrete and screed in factories, warehouse, shops, garages, railway platforms, stairs, ramps and roadways, as well as for curb stones and sidewalk flagstones.

Property profile

Hard Grain is a special aggregate composed of selected mineral materials. It is used as a blinding material for hardening the surface of cement-bound floors during the course of protection. It is easy and cost-saving to use – low material costs, high efficiency. No additional screed layer – direct bonding to the substrate. High abrasion, dust and wear resistance, improved oil and chemical resistance.

Working instructions

Place concrete or screed that is in a good earth-moist consistency and level. Mix Portland cement CEM I 32.5 R or CEM I 42.5 and Hard Grain 1:2 parts by volume together dry. Blind the freshly levelled screed surface evenly with the dry mixture. In simple cases, close the surface by compacting and smoothing with a steel trowel, otherwise use suitable equipment, e.g. disc compactor.

Characteristic data of the product

Bulk density:	1.5 kg/m ³
Colour:	grey
Quality control:	composition and quality
Grain size distribution:	0.0 – 0.5 mm – 10% 0.5 – 1.0 mm – 25 % 1.0 – 2.0 mm – 50 % 2.0 – 4.0 mm – 15 %
Abrasion (wearing) on Screed samples:	6.2 cm ³ / 50 cm ²
Comparative values: Material Group C (granolithic concrete) DIN 1100:	up to 7.0 cm ³ / 50 cm ²
Class 1 (sidewalk flagstones) DIN 485:	up to 15.0 cm ³ / 50 cm ²
Concrete roadways:	up to 15.0 cm ³ / 50 cm ²

After the floor can be subjected to foot traffic, usually one day after production, apply Screed Dispersion, Art. 0909 (1:1 in water) to protect against evaporation. This treatment provides additional dust laying properties and impregnates the surface. In case of greater temperature fluctuation, cover the surface after it can be subjected to foot traffic with e.g. plastic sheets. For heavier, especially chemical loads, carry out sealing and strengthening of the surface after drying with Rofaplast BG PUR Primer, Art. Nr. 0970 or Viscacid Epoxy impregnation, Art. Nr. 0994.

Concrete that has already hardened (carcass concrete slab) should be cleaned thoroughly (be milling if necessary) Then apply a bonding layer of Viscacid Epoxy Construction Resin, Art. 0905 and wet-on-wet, place fresh screed. Work in courses of approx. 1 metre. If a repair mortar is needed for worn screeds and small surfaces (ramps, roadways etc.) mix 1 bag of Hard Grain (30kg), 2 bags of Construction Resin Filler (Art. Nr. 4047) and 1 bag (25 kg) of Portland cement CEM I 32.5 and CEM I 42.5 with water to an earth moist consis-

tency, apply a bonding layer first as described above.
Expansion joints should be placed according to requirements as cut joints or at least approx. 1 cm in width. If necessary protect the sides of the joints additionally with a flat iron or steel angle. Pour out the joint with Albon AW Pouring Compound 2K, Art. Nr. 7640 or fill elastically with Albon BUW Art. Nr. 7560, according to instructions. ,

Technical Notes

Observe technical rules for screed and concrete, especially DIN 1045, DIN 18560, AGI A10, AGI A 11 "Traffic surfaces in industrial construction", Cement Journal Nr. 3 "Cement screeds" and Cement Journal 9 "concrete floors in industrial buildings"

Packaging, application and storage

Packaging:
30 kg paper bags

Application rate:

Screed:	at least 1.5 kg/m ² Aida Hard Grain
Concrete:	at least 2.5 kg/m ² Hard Grain
Evaporation Protection:	at least 0.1 kg/m ² Screed Dispersion
Bonding Layer:	at least 0.5 kg/m ² Epoxy Construction Resin

Shelf-life:

Approx. 2 years stored dry in Closed bags on wooden grids, Protected from moisture.

Safety, ecology, disposal

Further information concerning safety during transport, storage and handling as well as for disposal is found in the latest Safety Data Sheet.

The statements above are compiled from our field of production and according to the latest technological developments and application techniques.

Since application and working are beyond our control, no liability of the producer can be derived from the contents of this information sheet. Any statements made beyond the contents of this information must be confirmed in writing by the producer.

In all cases, our general conditions of sale are valid. With the publication of this Technical Information Sheet all previous editions are no longer valid.



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