



Drying shrinkage reducing admixture for concrete and self-leveling screed

DSR - I

Art. – No. 19.100

APPLICATION AREA:

- For the production of high-performance ready-mix-concrete and cementitious self leveling screed with reduced drying shrinkage.
- To be used in structures where cracks due to drying shrinkage are prevalent and the repercussions are most severe e.g. bridge decks, parking garages, waterproof concrete tanking and containment structures.
- DS Reducer - I is normally used in combination with a superplasticising admixture.

CHARACTERISTIC:

DSR - I reduces the materials shrinkage due to drying by increasing the cohesion in the pore structure and reducing the surface tension of the water. With reduced surface tension, the force pulling in on the walls of the pores is reduced, and the resultant shrinkage strain is reduced.

DSR - I enables

- reductions in drying shrinkage up to 30% (dependent on the composition of the concrete).
- strongly increased water-proofing properties.
- not change of any other properties of the fresh and hardened concrete.
- Shrinkage reduction by use for cementitious self leveling screeds.

TECHNICAL SPECIFICATIONS:

Raw material base:	Superior grade alcohol
Color:	reddish
Form:	liquid
pH – value:	> 7.0
Density (at 20 °C):	1.00 ± 0.02 g/ml
Chlorine content:	≤ 0.10 M-%
Alkali content:	≤ 8,5 M-% (as Na ₂ O-equivalent)
Settling temperature:	over + 5 °C
Shelf life:	approx. 12 months
Storage:	do not expose to sunlight and frost during storage; protect against contamination

TECHNICAL DATA SHEET

DOSAGE:

Recommended dosage range: 0.3 – 5.0 M-% of the cement weight.
The required amount of additive is based on the concrete characteristics in demand and must be determined during an initial test in accordance with BS EN 206-1.

PROCESSING INFORMATION:

- The dosage of DSR - I should take place at the concrete batching plant with the mixing water.
- Make sure that sufficient mixing time is allocated.
- Please observe the standards outlined in BS EN 206-1 and DIN 1045-2 when using concrete additives.

VERIFICATION OF SUITABILITY / CERTIFICATION:

- complies with DIN V 18998
- applicable in concrete with alkali sensitive aggregate according to DIN V 20000-100, Section 8.2
- complies with the requirements of ZTV-ING

WORK SAFETY:

- not a hazardous material according to the ordinance on hazardous substances
- not a hazardous material in terms of the transportation guidelines
- WGK 1 (self classification) low hazardous to waters
- observe the safety data sheet

FORM OF DELIVERY:

30 kg PVC can gfn
210 kg Poly drum gfn
1000 kg Container net
Tanker delivery upon request

NOTE:

Always observe general work hygiene when using our products. The raw materials we process and the products we produce are subject to strict factory inspections. We reserve the right to make changes that signify a technical advance. All the information applies to the normal case scenario, and has been given to the best of our knowledge. We cannot be held legally liable as a result of the information included in this leaflet. It is stressed that our products and the procedure must be tested for suitability with your circumstances.

EFFECTIVE: 09/11