

PRODUCT DATA SHEET

Sika® DryCast-1

DRY CAST CONCRETE PRODUCT ADMIXTURE

DESCRIPTION

Sika® DryCast-1 is admixture which has been specifically developed for dry cast concrete products manufacture. Sika® DryCast-1 is designed for use with zero or low slump concrete commonly used in the manufacture of dry cast concrete products.

USES

Sika® DryCast-1 is utilized where an improvement in appearance of the dry cast concrete products is required. This is achieved by creating better slick, improving moldability, enhancing cohesion and increasing early age strength.

Sika® DryCast-1 performs best when added to low slump dry cast concrete mixes. It provides a more efficient utilization of mixing water by aiding the dispersion of cement particles. Sika® DryCast-1 will also improve the appearance and density of dry cast concrete products.

CHARACTERISTICS / ADVANTAGES

Sika® DryCast-1 offers substantial benefits to the producer of semi-dry/no-slump concrete products:

- Efficient dispersion and distribution of cement, additives and pigments;
- Air entrainment;
- Improved movement of the concrete through the machine (faster mould filling);
- Optimized compaction with shorter pressing time and increased throughput (shorter production cycle);
- Minimized friction between the mould and the concrete (Reductions in equipment wear and tear);
- Reduced adhesion/stickiness between top layer concrete and pressing head/tamper (equipment/tools);
- Increased "green" strength on immediate de-moulding (keeps the shape of freshly de-moulded semi-dry concrete products because it prevents slumping after de-moulding);
- More economic concrete mix designs;
- Create superior products;
- Consistent product quality due to a homogenous concrete mix;
- Increased density;
- Less variation in densities and strengths across the area of the mould (constant spread of density & strength over the pallet);
- Minimized damage due to early handling;
- Enhanced early and ultimate compressive and tensile strengths.

PRODUCT INFORMATION

Chemical base	Bend of Lignosulfanate and surfactants
Packaging	200 / 1000 L
Shelf life	12 months if stored properly in original unopened packaging.
Storage conditions	Stored in dry conditions, protected from direct sunlight and at temperatures between +5 °C and +30 °C.
Appearance / Colour	Liquid / brown

Density 1.115–1.135
(At 20 °C)

TECHNICAL INFORMATION

Specific Advice

Sika® DryCast-1 is added to the gauging water prior to its addition to the dry mix or added separately to the wetted concrete mix.
For optimum utilization of admixture we recommend a minimum wet mixing time of 60 seconds.
When adding the balance of the batching water to adjust concrete consistency this should be done after a minimum of 2/3 of the wet mixing time to avoid surplus water in the concrete.

APPLICATION INFORMATION

Recommended Dosage

0.2–1.0 L per 100 kg of cement
Typical 0.4–0.8 L per 100 kg

Compatibility

Sika® DryCast-1 may be combined with all Sikament, Sika® Aer, Sika® Pump, Sikacrete® PP-1 products, but must be added separately to the mix and not pre-mixed prior its addition.
Sika® DryCast-1 is compatible with all Portland cement types.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATION

Sika® DryCast-1 must not be used for wet cast concrete as this could result in excessive air entrainment and subsequent loss of strength.
Accurate dispensing equipment can be supplied by Sika Limited (Vietnam).
Use an appropriate concrete mixer and do not mix by hand.
Trial mixes are recommended to establish exact dosage rates required to suit individual requirements. Please contact Sika Technical Department for further assistance.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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