BUILDING TRUST

PRODUCT DATA SHEET

SikaPaver® SD-40

Highly efficient and high performance admixture for compaction of semi dry concrete

DESCRIPTION

SikaPaver® SD-40 is a highly efficient and high performance admixture for compaction of semi-dry concrete. This innovative admixture technology is specially developed for use in semi-dry concrete with low cement content.

USES

SikaPaver® SD-40 is used for the production of optimized colored and gray semi-dry concrete with a very low moisture content. Semi-dry concrete is generally used in the manufacture of machined concrete products with immediate demoulding such as the pavers (gray / colored), building elements, concrete pipes, drainage elements, hollow cores etc.

CHARACTERISTICS / ADVANTAGES

SikaPaver® SD-40 provides major advantages for the manufacturer of semi-dry concrete products:

- Effective dispersion and distribution of cement, admixture and pigments
- Improved transport of concrete through the machine (faster filling of molds)
- Optimized compacting with shorter compaction time and increased production rate (shorter production cycle)
- Minimized friction between the mold and the concrete (reduced machine wear)
- Reduced adhesion between the concrete top surface and the compaction head (equipment / tools)
- Increased green strength at immediate demoulding (retaining the shape of fresh demoulded semi-dry concrete products due to no sag after demoulding)
- More economic concrete compositions
- Create excellent products

SikaPaver® SD-40 provides the following benefits to the finished semi-dry concrete products:

- Tighter structure and smoother surfaces
- Constant product quality thanks to a homogeneous concrete mix
- Increased density
- Less variation in density and strength across the mold surface (constant distribution of density and strength across the pallet)
- Minimized damage due to early handling
- Improved early and final compressive- and tensile strength
- Improved resistance to frost / thawing
- Improved durability and life span

SUSTAINABILITY

For the product's assessment in the different building criteria systems, see MiljöAppen.

Here you will also find information about EC1, M1, link to the building product declaration, safety data sheets etc. The MiljöAppen, can also be reached through entering www.sikamiljoapp.se in your web browser.

APPROVALS / CERTIFICATES

- This product is certified by Vattenfall Services Nordic AB as an admixture for semi-dry concrete. Certification Number: 16533.
- The product fulfills the criteria for chemical products at BASTA.

PRODUCT INFORMATION

Packaging	Can 20 kg, barrel 200 kg, IBC 1010 kg and tanker truck.
Shelf life	9 months from date of production (tanker truck 16 months).
Storage conditions	Storage temperature between +5 °C and +35 °C. Protect from direct sunlight and frost. Use clean plastic, fiberglass or stainless steel tanks when handling the SikaPaver® SD-40. These should be cleaned and disinfected at least once a year. Stirring must be done mechanically or with round pumping. Avoid air blowing.
Appearance and colour	White liquid
Density	1,01 ± 0,02 kg/dm³
Conventional dry material content	3,0 ± 0,3 %
pH-Value	7,5 ± 1
Total chloride ion content	<0,10 % by weight
Equivalent sodium oxide	<0,10 % by weight

TECHNICAL INFORMATION

Concreting guidance	SikaPaver® SD-40 is added to the concrete with the mixing water. For accurate dosing, automatic dosing equipment is recommended for weight or volume dosing. Recommended mixing time is 30-180 sec depending on mixer type.
Recommended dosage	0,3-1,0 % of the cement weight.

BASIS OF PRODUCT DATA

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

IMPORTANT CONSIDERATIONS

Pre trials shall be performed according to required concrete standards with actual materials to clarify the right effect is achieved. The effect of this admixture is strongly effected by witch cement type is in use. In some cases, compared to a reference without admixture, the amount of compaction cycles could be higher to get the same final density and at the same time the capillarity and strength could also be lower.

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

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES