

PRODUCT DATA SHEET

SikaControl[®]-20 P VN

SHRINKAGE REDUCING AND COMPENSATING ADMIXTURE

DESCRIPTION

SikaControl[®]-20 P VN is a shrinkage-reducing and compensating admixture. The effect of the dual-mechanism to control shrinkage allows to produce high-performance concrete with greatly reduced potential for drying shrinkage, cracking and curling.

USES

SikaControl[®]-20 P VN can be used in any type of ready mix concrete or precast/prestressed concrete, grout, mortar or any other cementitious mixes. Some of the applications of SikaControl[®]-20 P VN may include:

- Concrete floors, to compensate for drying shrinkage cracking, control curling and increased joint spacing.
- In thin bonded topping slabs, to minimize the difference in shrinkage between the new topping and the existing substrate.

- In concrete elements which are restrained against shrinkage.
- For bridge decks and parking structures.
- For durable concrete in marine environments.
- For watertight concrete in reservoirs, sewage treatment plants, and dams.

CHARACTERISTICS / ADVANTAGES

- Controlled expansion mechanism for producing a volume stable concrete.
- Reduces curling and allows for increased joint spacing.
- Reduces porosity and permeability, resulting in improved concrete durability.
- Reduces contraction forces induced from drying shrinkage thus minimizing risks of long-term and unsolicited cracks formation.

APPROVALS / STANDARDS

Conforms to the requirements of ASTM C494, type S

PRODUCT INFORMATION

Chemical base	Blended powder of CSA and special additives
Packaging	20 Kg/bag
Shelf life	6 months if stored properly in original unopened packaging.
Storage conditions	Sensitive to moisture/water. Stored in cool dry conditions, protected from direct sunlight
Appearance / Colour	White powder
Specific gravity	2.6 – 3.0 kg/dm ³

TECHNICAL INFORMATION

Concreting Guidance	The standard rules of good concreting practice, concerning production and placing, are to be followed. Laboratory trials shall be carried out before concreting on site, especially
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when using a new mix design or producing new concrete components. Fresh concrete must be cured properly and curing applied as early as possible.

Specific Advice

- Not following proper curing practices will lead in a decrease of efficiency of the admixture.
- SikaControl®-20 P VN will provide best results by using wet curing methods

APPLICATION INFORMATION

Recommended Dosage

2 – 7% by weight of cement

Compatibility

SikaControl®-20 P VN is compatible with commonly-used SCMs and other Sika® admixtures.
Do not premix with other admixtures
Always conduct trials before combining products in specific mixes and contact our Technical Service Department for information and advice about any specific combinations

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.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent MSDS containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

DISPENSING

SikaControl®-20 P VN can be added to the concrete either along with the other powder components or after all the other ingredients are added to the concrete mixer or mixer truck.
If it is added after all the other ingredients, adequate mixing should be ensured.

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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SikaControl®-20 P VN

August 2022, Version 01.02

02140304100000055

SikaControl-20PVN-en-VN-(08-2022)-1-2.pdf