



PRODUCT DATA SHEET

SikaControl® AIR-160

AIR ENTRAINING ADMIXTURE

PRODUCT DESCRIPTION

SikaControl® AIR-160 is an aqueous solution of a unique, synthetically manufactured surfactant for the air entrainment of concrete. SikaControl® AIR-160 meets the requirements of ASTM C260/AASHTO M 154.

WHERE TO USE

SikaControl® AIR-160 is designed for use in concrete requiring air entrainment and protection from freeze-thaw damage or the harmful effect of de-icing salts. SikaControl® AIR-160 is specifically designed for use in high slump or SCC as well as in concrete mix designs requiring low dosages of air entraining agents, but is suitable for use in a variety of concrete mixes.

CHARACTERISTICS / ADVANTAGES

SikaControl® AIR-160 provides an enhanced concrete durability with a greater resistance to freeze-thaw cycles.

SikaControl® AIR-160 also provides:

- Controllability of the air content,
- Improved air-void system,
- Reduced size and number of capillary channels,
- Improved workability especially in lean or harsh mixes,
- Reduced bleeding.

SikaControl® AIR-160 does not contain intentionally added chlorides.

ENVIRONMENTAL INFORMATION

Lower carbon footprint through reduction in cementitious materials and in some cases sand. More durable concrete enhancing service life.

A Manufacturer Inventory is available for SikaControl® AIR-160.

PRODUCT INFORMATION

Packaging	Available in 55-gallon (208-liter) drums, 275-gallon (1040-liter) totes and bulk delivery.
Appearance / Colour	Transparent Pink Liquid
Shelf Life	Shelf life when stored in original packaging in dry warehouse conditions between 40°F and 80°F (5-27°C) is one year from the date of manufacture.
Storage Conditions	SikaControl® AIR-160 should be stored above 40°F (5°C). If frozen, DO NOT USE. Protect from direct sunlight.
Specific Gravity	Approximately 1.003

APPLICATION INFORMATION

Recommended Dosage

The typical dosage rate of SikaControl® AIR-160 will vary between 0.1-6.0 fl oz / 100 lb. (7-400 mL / 100 kg) of cement or cementitious materials. Various factors will affect the dosage rates. Dosage rates outside of the typical range may be used.

It is recommended to conduct trial mixes with the actual materials to determine the required dosage for optimum performance.

To the extent specialized materials (such as microsilica) are specified, extreme ambient project conditions are encountered, or other unusual project conditions require special consideration outside the recommended dosage, please contact your local regional Sika office or Sika technical service department at 1-800-933-7452 prior to using the Sika admixture.

Mixing

Measure the required quantity manually or by automated dispenser. Add SikaControl® AIR-160 directly to the mixing water or to the sand stream, do NOT mix with dry cement. SikaControl® AIR-160 may be dispensed on-site directly prior to placement. Care must be taken to mix thoroughly. When used in combination with other admixtures dispense each admixture separately into the mix.

Compatibility: SikaControl® AIR-160 can be used in combination with other Sika admixtures and can be successfully used in mix designs utilizing supplementary cementitious materials.

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

ENVIRONMENT, HEALTH & 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

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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be

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