



PRODUCT DATA SHEET

Sika® Air-360

AIR ENTRAINING ADMIXTURE

PRODUCT DESCRIPTION

Sika® Air-360 is an aqueous solution of a unique, synthetically manufactured surfactant for the air entrainment of concrete.

WHERE TO USE

Sika® Air-360 is designed for use in concrete requiring air entrainment and protection from freeze-thaw damage or the harmful effect of de-icing salts. Sika® Air-360 is specifically designed for use in low or no slump concrete, but is suitable for use in a variety of concrete mixes. Sika® Air-360 may be used to produce Controlled Low Strength Material (CLSM), also referred to as flowable fill, controlled density fill (CDF), lean mix backfill, unshrinkable fill or flowable mortar. CLSM eliminates the need for compaction of layered backfill and is significantly faster and less labor intensive.

CHARACTERISTICS / ADVANTAGES

Sika® Air-360 provides an enhanced concrete durability with a greater resistance to freeze-thaw cycles.

Sika® Air-360 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.

Sika® Air-360 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.

APPROVALS / CERTIFICATES

Meets or exceeds the requirements of ASTM C260 and CSA A23.1-00.

PRODUCT INFORMATION

CSC MasterFormat®

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Packaging

Available in 205-litre drums, 1040-litre totes and bulk delivery.

Shelf Life

Shelf life when stored in original packaging in dry warehouse conditions between 5-27°C is one year from the date of manufacture.

Storage Conditions

Sika® Air-360 should be stored above 5°C. If frozen, thaw and agitate

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thoroughly to return to a normal state. If agitation is needed, DO NOT use pressurized air. Protect from direct sunlight.

Appearance / Colour Light Yellow Liquid

Specific Gravity Approx. 1.010

APPLICATION INFORMATION

Recommended Dosage

The typical dosage rate of Sika® Air-360 will vary between 7-400 mL / 100 kg of cement or cementitious materials. For controlled low strength material applications, the dosage rate of Sika® Air-360 is up to 0.5 L / m³ 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 Representative prior to using the Sika admixture.

Mixing

Measure the required quantity manually or by automated dispenser. Add Sika® Air-360 directly to the mixing water or to the sand stream, do NOT mix with dry cement. Sika® Air-360 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: Sika® Air-360 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 downloaded from our website at: www.sika.ca

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