

Mapeair SA-20

Diluted Air-Entraining Admixture

FOR PROFESSIONAL USE ONLY

DESCRIPTION

Mapeair SA-20 is a specifically developed, multi-component air-entraining admixture that has been stabilized to produce an air-void system consistent with industry requirements and standards. *Mapeair SA-20* is a reduced-solids version of *Mapeair SA-50*. When added separately, *Mapeair SA-20* is a synthetic-based alpha olefin that will produce a small, more well-defined and spaced bubble structure, which is stabilized to be more efficient when used in producing concrete mixtures containing low-alkali cement or supplementary cementitious materials and higher-solids high-range water reducers. *Mapeair SA-20* has been formulated specifically for ready-mix and precast concrete applications where the need for accurate dispensing with a small load size may be an issue.

FEATURES AND BENEFITS

- Concentrated formula allows for higher dosage rates, making it easier to be used in automatic dispensing equipment
- Conforms to ASTM C260 and AASHTO M154, Standard Specification for Air Entraining Admixtures

WHERE TO USE

Mapeair SA-20 provides excellent durability in freeze/thaw applications due to consistent bubble size and spacing in hardened concretes.

It may be used also for the following applications:

- To improve the resistance to salt scaling and sulfate-related deterioration
- To reduce bleeding and segregation and to increase the workability of a concrete mix
- To aid the finish of concrete, reduce the “bug holes” and produce more even and smoother surfaces

- To aid the pumping of lean concretes
- To aid in placing low-slump concrete mixes (paving)

Mapeair SA-20 is a consistent and effective air-entraining agent when used with low-alkali cements, fly ash and/or other supplementary cementitious materials.

APPLICATION PROCEDURE

Mapeair SA-20 may be added together with the mixing water or directly into the sand. The development of the air required is improved if the concrete is then thoroughly mixed.

Concrete mixtures should be tested regularly with air meters during production to verify that the air content meets the technical requirements and project specifications.

COMPATIBILITY WITH OTHER PRODUCTS

Mapeair SA-20 is compatible with most MAPEI products for preparing quality concrete. It is especially compatible with:

- Mid- and high-range water reducers from the MAPEI line.
- Water reducers.
- Non-chloride accelerators.
- Retarders and slump extenders.
- Viscosity-modifying admixtures.
- Silica-fume-based powder additions.
- Fly ash and any other kind of cementitious addition.
- All types of Portland cements, including low-alkali cements.

MAPEI's Technical Services Department is available to evaluate which admixture or admixture packages are most suitable for any specific need. Contact MAPEI's Technical Services Department for further advice.

DOSAGE RATES

The recommended dosage of *Mapeair SA-20* is 0.85 to 3.0 U.S. oz. per 100 lbs. (55 to 195 mL per 100 kg) of cementitious materials. Field tests will determine the proper dosage for each set of materials.

Contact MAPEI's Technical Services Department for recommended dosages and for assistance when using the product.

PACKAGING

Mapeair SA-20 is available by bulk delivery, in 55-U.S.-gal. (208-L) drums and 275-U.S.-gal. (1 040-L) totes.

STORAGE

Mapeair SA-20 can be stored for 1 year in sealed containers. Protect from freezing.

Technical Data

Consistency	Liquid
Color	Blue
Density	8.36 lbs. per U.S. gal. (1.00 kg per L)
Primary function	Air-entraining
Corrosivity	Non-corrosive. <i>Mapeair SA-20</i> does not contain calcium chloride or other chloride-based components. Its use will not contribute to the increased corrosion of reinforcing steel in concrete.

ADDITIONAL INFORMATION

Refer to the SDS for specific data related to health and safety as well as product handling.

For information on MAPEI's commitment to sustainability and transparency, as well as how MAPEI products may contribute to green building standards and certification systems, contact sustainability_USA@mapei.com (USA) or sustainability-durabilite@mapei.com (Canada).

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement nor replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at www.mapei.com. **ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.**

Before using, the user must determine the suitability of our products for the intended use, and the user alone assumes all risks and liability. **ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.**

CONTACT INFORMATION

MAPEI Headquarters of North America

1144 East Newport Center Drive
Deerfield Beach, Florida 33442
1-888-US-MAPEI (1-888-876-2734) / (954) 246-8888

Technical Services

U.S. and Puerto Rico:

Flooring: 1-800-992-6273

Concrete and heavy construction: 1-888-365-0614

Canada:

1-800-361-9309

Customer Service

1-800-42-MAPEI (1-800-426-2734)

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For the most current product data and BEST-BACKEDSM warranty information,
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