

Mapeair 154

Air-Entraining Admixture

FOR PROFESSIONAL USE ONLY

DESCRIPTION

Mapeair 154 is a multi-component, air-entraining admixture that has been stabilized to produce an air-void system consistent with industry requirements and standards. It is formulated to provide consistent stable air-void percentages at all phases of concrete mixing, including haul time and discharge. *Mapeair 154* has been formulated specifically for ready-mix and precast concrete applications where the need for stable air percentages is required.

FEATURES AND BENEFITS

- Provides stable air-void percentages from the initial mixing to the discharge of concrete
- Formulated using multiple chemistries, including natural rosen
- Compatible with traditional Portland cements and Type 1L alternatives
- Meets or exceeds the requirements of ASTM C260 and AASHTO M154 (Standard Specification for Air-Entraining Admixtures for Concrete)

WHERE TO USE

Mapeair 154 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 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 “bug holes” and produce more even, smoother surfaces
- To aid the pumping of lean concretes
- To aid in placing low-slump concrete mixes (paving)

Mapeair 154 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 154 may be added together with the mixing water or directly into the sand. Once the remaining materials are added, thoroughly mix the concrete to generate the proper air entrainment.

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 154 is compatible with most MAPEI products for preparing quality concrete. It is especially compatible with:

- All water reducers from the *Mapeplast* and *Dynamon* product families.
- 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 package is most suitable for any specific need. Contact MAPEI's Technical Services Department for further advice.

DOSAGE RATES

The recommended dosage of *Mapeair 154* is 0.50 to 3.0 U.S. oz. per 100 lbs. (32.6 to 195.6 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 154 is available by bulk delivery, in 5 U.S.-gal. (18.9-L) buckets, 55-U.S.-gal. (208-L) drums and 275-U.S.-gal. (1 040-L) totes.

STORAGE

Mapeair 154 can be stored for 1 year in the original sealed containers. Protect from freezing.

Technical Data

Consistency	Liquid
Color	Light yellow
Density	8.515 lb./gal. (1.021 kg/L)
Primary function	Air-entraining
Corrosivity	Non-corrosive. <i>Mapeair 154</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 Safety Data Sheet (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).

WARNING

The test results shown in the TECHNICAL DATA table were obtained in compliance with test methods and curing cycles, if applicable, defined in the industry standards referenced on the Technical Data Sheet. Please note that the use of test procedures or methods other than those indicated in the table could lead to different values and that, in such cases, any liability of our company is excluded.

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

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Customer Service

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For the most current product data and BEST-BACKEDSM warranty information,
visit www.mapei.com.
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