

Mapeplast 440 NS

Water-Reducing and -Retarding Admixture

FOR PROFESSIONAL USE ONLY

DESCRIPTION

Mapeplast 440 NS is used in all concrete where ease of placement, normal-strength and increased workability are desired. Used in all flatwork, curb mixes and walls, *Mapeplast 440 NS* is compatible with a wide range of cements, fly ashes and aggregates. *Mapeplast 440 NS* does not contain calcium chloride.

WHERE TO USE

Mapeplast 440 NS provides concrete with lower permeability, little or no bleeding, and, in summary, the following advantages:

- Reduced segregation, even with very high slumps
- Increased pumpability
- Increased relative durability to freezing and thawing
- Superior finishing characteristics for flatwork, walls, curbs and tilt-ups
- Better retention of slump than conventional water reducers
- Lower water-cement ratio

APPLICATION PROCEDURE

Mapeplast 440 NS is typically added with the initial mixing water or incorporated with the final water at the end of the batch sequence. *Mapeplast 440 NS* can be added at the jobsite if required.

COMPATIBILITY WITH OTHER PRODUCTS

Mapeplast 440 NS is also compatible with all types of Portland cements and supplementary cementitious materials such as GGBFS, silica fume and fly ash. Mapeplast 440 NS is compatible with most MAPEI products for preparing quality concrete. It is especially compatible with:

- *Dynamon* and *Mapefluid* high-range water reducers.
- *Mapeair* air-entraining admixtures.
- *Mapefast* non-chloride and chloride accelerators.
- *Mapecrete* slump extenders and viscosity-modifying admixtures.
- *Mapeshield* corrosion-inhibitor admixtures.

DOSAGE RATES

Mapeplast 440 NS is recommended for use at a dose of 2 to 8 U.S. oz. per 100 lbs. (59 to 237 mL per 100 kg) of cementitious material.

Contact your local MAPEI Admixtures sales representative for recommended dosages and for assistance when using the product, if using this product outside recommended dosage ranges or when combining with other admixtures.

PACKAGING

- Mapeplast 440 NS is available by bulk delivery, in 55-U.S.-gal. (208-L) drums and 275-U.S.-gal. (1 041-L) totes.

STORAGE

- Mapeplast 440 NS can be stored for 1 year in sealed containers.
- Mapeplast 440 NS may freeze at temperatures below 20°F (-7°C). Although freezing does not harm Mapeplast 440 NS, precautions should be taken to protect it from freezing. If it should freeze, thaw and reconstitute it with mechanical agitation.
- Do not use pressurized air for agitation.

Technical Data

Consistency	Liquid
Color	Dark brown
Density	8.85 lbs. per U.S. gal. (1.06 kg per L)
Primary function	Increase in workability and reduction of mixing water
ASTM C494 classification	Type A and Type D
AASHTO M194 classification	Type A and Type D

Corrosivity

Non-corrosive. *Mapeplast 440 NS* 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 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).

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

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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,
visit www.mapei.com.
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