

Dynamon SX

High-Range, Water-Reducing Admixture

FOR PROFESSIONAL USE ONLY

DESCRIPTION

Dynamon® SX is a high-performance admixture for concrete based on polycarboxylate technology, belonging to the MAPEI *Dynamon* system. *Dynamon* SX meets the requirements of ASTM C494 Types A and F and AASHTO M194 Types A and F. *Dynamon* SX has been designed for use in both ready-mix and precast/prestressed applications and where greater water reduction is needed, along with high mechanical strength at all ages. Its performance makes it particularly suitable for manufacturing self-consolidating concrete (SCC). *Dynamon* SX ensures high workability and cohesiveness in all concrete mixes.

WHERE TO USE

Use *Dynamon* SX when concrete requires a high level of workability and excellent mechanical properties when hardened.

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The main application of *Dynamon* SX is the production of:

- Concrete for high mechanical performance with long retention of slump.
- Concrete for durable structures.
- Concrete with mid- or high-strength performance.
- Self-consolidating concrete (SCC).

MIXING

Dynamon SX may be added with the initial mix water or as a delayed addition. *Dynamon SX* develops maximum dispersing action when added after the mix ingredients of cement, aggregates, mineral addition or filler, and at least 80% of the mixing water. Add *Dynamon SX* before any viscosity-modifying admixtures.

COMPATIBILITY WITH OTHER PRODUCTS

Dynamon SX is compatible with most products for preparing quality concrete. It is especially compatible with:

- Non-chloride accelerators from the MAPEI product line for reaching very high mechanical strengths at early ages.
- Retarders and slump extenders.
- Air-entraining admixtures.
- Viscosity-modifying admixtures.
- Approved MAPEI form-release agents for releasing concrete from formworks.
- Expansive agents and shrinkage-compensating admixtures to produce shrinkage-resistant concrete.
- Curing compounds from the *Mapecure*™ product line to protect against rapid water evaporation.
- Silica-fume-based powder additions.
- Class C and Class F fly ash.
- Various types of limestone fillers for manufacturing self-consolidating concrete and any other type of concrete that requires these fillers.
- All types of Portland 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.

LIMITATIONS

Do not use *Dynamon SX* in conjunction with admixtures containing naphthalene sulfonate. Fresh concrete properties may be adversely affected.

DOSAGE RATES

Use 2 to 15 U.S. oz. per 100 lbs. (130 to 975 mL per 100 kg) of cementitious material. Dosage rates outside of the suggested range should be tested before using in production. Contact MAPEI's Technical Services Department for assistance.

PACKAGING

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

STORAGE

Dynamon SX can be stored for 1 year in sealed containers at between 41°F and 95°F (5°C and 35°C). Protect from freezing.

Exposure to direct sunlight can cause slight color variations without altering the performance of the product in any way.

Technical Data

Consistency	Liquid
Color	Amber
Primary function	Increases workability and/or reduction of mixing water
Density	8.93 lbs. per U.S. gal. (1.07 kg per L)
ASTM C494 classification	Type A and Type F
AASHTO M194 classification	Type A and Type F
Corrosivity	Non-corrosive. <i>Dynamon SX</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 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

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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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