

Dynamon NRG 1092

High-Range, Water-Reducing Admixture

FOR PROFESSIONAL USE ONLY

DESCRIPTION

Dynamon™ NRG 1092 is a high-range, water-reducing admixture for normal-setting, high-performance and durable concrete. Concrete manufactured with *Dynamon NRG 1092* has a high level of workability and exhibits excellent mechanical properties when hardened. *Dynamon NRG 1092* meets the requirements for ASTM C494 Type A and Type F as well as AASHTO M194 Type A and Type F.

WHERE TO USE

Dynamon NRG 1092 has been designed for use in precast and prestressed concrete applications. *Dynamon NRG 1092* can be used in other types of construction, provided that testing is performed to ensure the achievement of plastic and hardened properties.

APPLICATIONS

- Precast concrete
- Prestressed concrete
- High-performance concrete
- High-early-strength concrete
- Self-consolidating concrete

FEATURES AND BENEFITS

- Produces high-flowing concrete
- Enhances workability
- Increases strength

MIXING

Dynamon NRG 1092 may be added with the initial water or as a delayed addition with the final water. Optimum water reduction is generally obtained with a delayed addition. *Dynamon NRG 1092* develops maximum dispersing action when added after the other mix ingredients (cement, aggregates, mineral additions or fillers, and at least 80% of the mixing water).

COMPATIBILITY WITH OTHER PRODUCTS

Dynamon NRG 1092 is compatible with most products for preparing quality concrete. It is especially compatible with:

- MAPEI non-chloride accelerators for reaching very high mechanical strengths at early ages.
- MAPEI air-entraining admixtures.
- Viscosity-modifying admixtures.
- *DMA* and *Mapeform*™ form-release agents for releasing concrete from formworks.
- Expansive agents and shrinkage-compensating admixtures for producing shrinkage-resistant concrete.
- 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.

Technical Data

Density	9.13 lbs. per U.S. gal. (1.095 kg per L)
Consistency	Liquid
Color	Light amber
Primary function	Increases workability and/or reduction of mixing water
Corrosivity	Non-corrosive. <i>Dynamon NRG 1092</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.

DOSAGE RATES

Use from 3 to 15 U.S. oz. per 100 lbs. (195 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 NRG 1092 is available by bulk delivery, in 55-U.S.-gal. (208-L) drums and 275-U.S.-gal. (1 041-L) totes.

STORAGE

Dynamon NRG 1092 can be stored for 1 year in sealed containers at between 32°F and 110°F (0°C and 43°C). Protect from freezing.

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

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Customer Service

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