

# Dynamon 850

Multi-Range Water-Reducing Admixture

## DESCRIPTION

*Dynamon 850* (formerly Polychem 850) is a normal-setting, multi-range water-reducing admixture for concrete utilizing polycarboxylate technology. *Dynamon 850* is designed to facilitate the placing and finishing of ready-mixed concrete that is highly flowable and workable for extended periods of time with normal-setting characteristics. *Dynamon 850* meets or exceeds the requirements of ASTM C494 Type A and Type F, as well as AASHTO M194 Type A and Type F.

## WHERE TO USE

*Dynamon 850* can be used in all concrete where ease of placement, normal-setting characteristics and increased workability are desired. *Dynamon 850* is especially suitable for the production of:

- Ready-mixed concrete.
- Precast/pre-stressed concrete.
- Self-compacting concrete (SCC).
- Paving.
- Flatwork.

## ADVANTAGES

- Broad dosage range
- Increased early and ultimate compressive and flexural strengths
- Improved workability and finishability
- Reduced segregation
- Improved pumpability
- Enhanced durability
- Increased slump retention
- Improved bond to steel

## MIXING

*Dynamon 850* is typically added with the initial mixing water or incorporated with the final mix water at the end of the batch sequence. *Dynamon 850* can also be jobsite-added as necessary.

## COMPATIBILITY WITH OTHER PRODUCTS

*Dynamon 850* is compatible with most MAPEI admixtures. It is especially compatible with:

- Water-reducing admixtures manufactured by MAPEI.
- MAPEI-approved air-entraining admixtures.
- MAPEI-approved accelerators.
- MAPEI-approved retarders and slump extenders.
- MAPEI-approved viscosity-modifying admixtures.
- Silica fume.
- Fly ash and any other mineral addition.
- MAPEI-approved form-release agents.

## DOSAGE RATES

*Dynamon 850* is recommended for use at a dosage range of 1 to 20 oz. per cwt (65 to 1 305 mL per 100 kg) of cementitious material.

It is not unusual to experience significantly lower air-entrainment dosage requirements (50% to 75%) when compared with conventional high-range water reducers.

Dosage rates outside of the suggested range should be tested before using in production. Contact MAPEI's Technical Services Department for assistance.

## PACKAGING

*Dynamon 850* is available by bulk delivery, drums measuring 55 U.S. gals. (208 L) and totes measuring 275 U.S. gals. (1 041 L).

## STORAGE

*Dynamon 850* can be stored for 1 year in its original, unopened packaging.

*Dynamon 850* should be stored at temperatures above 35°F (2°C) to protect from freezing. If *Dynamon 850* freezes, it can be thawed and reconstituted by mechanical agitation. Do not use pressurized air for agitation.

## Technical Data

|                       |                                                                                                                                                                                   |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Consistency           | Liquid                                                                                                                                                                            |
| Color                 | Brown                                                                                                                                                                             |
| Density               | 8.76 lbs. per U.S. gal. (1.05 kg per L)                                                                                                                                           |
| Primary function      | Water-reducing admixture                                                                                                                                                          |
| ASTM classification   | C494 Type A and Type F                                                                                                                                                            |
| AASHTO classification | M194 Type A and Type F                                                                                                                                                            |
| Corrosivity           | <i>Dynamon 850</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](mailto: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](http://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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1-800-361-9309

### Customer Service

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For the most current product data and BEST-BACKED<sup>SM</sup> warranty information,  
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