

# Mapetard R

Set-Retarding Admixture for Concrete

FOR PROFESSIONAL USE ONLY

## DESCRIPTION

*Mapetard R* (formerly Polychem R) is a highly concentrated liquid admixture conforming to ASTM C494, Type D. *Mapetard R* reduces the quantity of mixing water required to produce concrete of a standard consistency with the benefit of extended slump life and workability. Concrete produced with *Mapetard R* will experience rapid strength development after the initial set occurs. If retardation is within the normal ASTM C494, Type B and D specifications, *Mapetard R* will develop higher early and ultimate strengths than regular concrete under normal comparable curing conditions.

## FEATURES AND BENEFITS



- Tested and certified by WQA in accordance with NSF/ANSI/CAN Standard 61 and NSF/ANSI 372. For NSF/ANSI/CAN Standard 61 and NSF/ANSI 372 usage restrictions, visit [www.wqa.org](http://www.wqa.org).

## WHERE TO USE

The main applications in concrete of *Mapetard R* are the following:

- When controlled setting times and extended slump life are required especially in hot weather
- When improved workability, placement and superior finish are required
- Mass concrete pours and when it is necessary to reduce thermal peaks generated by the development of heat of hydration

- To avoid cold joints
- For roller-compacted concrete (RCC) applications

*Mapetard R* promotes lower water-to-cement ratios, reduced permeability and improved durability of concrete. After initial set occurs, early and ultimate compressive and flexural strengths will be enhanced.

## APPLICATION PROCEDURE

*Mapetard R* may be added with the initial mix water or as a delayed addition. *Mapetard R* develops maximum action when added after the mix ingredients of cement, aggregates, mineral addition or filler, and at least 80% of the mixing water.

## COMPATIBILITY WITH OTHER PRODUCTS

- *Mapetard R* is compatible with most MAPEI products for preparing quality concrete. It is especially compatible with:
- Mid- and high-range water reducers.
- Air-entraining admixtures.
- Expansive agents and shrinkage-compensating admixtures to produce 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.

## DOSAGE RATES

*Mapetard R* has a recommended dosage range of 2 to 5 U.S. oz. per 100 lbs. (130 to 325 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

*Mapetard R* is available by bulk delivery, in 55-U.S.-gal. (208-L) drums and 275-U.S.-gal. (1 040-L) totes.

## STORAGE

*Mapetard R* can be stored for 1 year in sealed containers; it may freeze at temperatures below 32°F (0°C).

## Technical Data

Consistency	Liquid
Color	Brown
Density	10.38 lbs. per U.S. gal. (1.25 kg per L)
Primary function	Set-time retardation and reduction of the mixing water
ASTM C494 classification	Type B and Type D
AASHTO M194 classification	Type B and Type D
Corrosivity	Non-corrosive. <i>Mapetard R</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) or [sustainability-durabilite@mapei.com](mailto: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](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

### MAPEI Headquarters of North America

1144 East Newport Center Drive  
Deerfield Beach, Florida 33442  
1-888-US-MAPEI (1-888-876-2734) / (954) 246-8888

### Technical Services

U.S. and Puerto Rico:

Flooring: 1-800-992-6273

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

Canada:

1-800-361-9309

### Customer Service

1-800-42-MAPEI (1-800-426-2734)

Edition Date: October 16, 2023 MK 3007918 (23-2308)

For the most current product data and BEST-BACKED<sup>SM</sup> warranty information,  
visit [www.mapei.com](http://www.mapei.com).  
All Rights Reserved. © 2023 MAPEI Corporation.

