

## DESCRIPTION

**EPOCON MR 754** is a mid-range plasticizer concrete admixture applicable under any weather conditions.

## CHARACTERISTICS

Economic plasticizer concrete admixture for concrete and mortar. If the dosage is exceeded, **EPOCON MR 754** acts as retarder. When the dosage is used at the lower limit, it is a normal plasticizer while it acts as a super plasticizer when used at the upper limit.

## APPLICATIONS

**EPOCON MR 754** is used, without any risks of segregation, for ready mix concrete, precast industry and narrow sections with close reinforcement bars as well as for leveling surface concrete.

## USAGE

Mix cement (and pozzolanic materials), sand, aggregate and 50-70% of mixing water until a homogeneous mixture is obtained. **EPOCON MR 754** is poured into the concrete mix after the addition of the first 50 – 70 %of the mixing water. It is important that the mixing period should be sufficiently extended for the complete dispersion throughout the mix. **EPOCON MR 754** is added to the remaining mixing water until required workability and homogeneous mixture are obtained. (It is recommended to extend the mixing period 4 minutes)

## COMPATIBILITY

**EPOCON MR 754** can be used in all types of Portland cement, sulfate resisting cement and supplementary cementitious materials. **EPOCON MR 754** should be dispensed directly into the mixer and should not be premixed with other admixtures. If other admixtures are to be used in concrete containing **EPOCON MR 754**, they must be dispensed separately.



## TECHNICAL SPECIFICATION

Test Name	Average Result
Chemical Composition	Ligno modified
Form	Liquid
Colour	Dark Brown
Specific Gravity@20°C	1.150 ± 0.01
pH	6 ± 1.5
Chloride content (%)	< 0.12
Freeze harm	Complete Stir or agitate the container before use
Freeze temperature	0°C
Boiling point	100°C
Odor	Mild odor
Toxicity	None
Flammability	None
Clean-up	Water
Fumes during treatment	Slight
Environmental Hazards	None
Air Entrainment	Up to 2.2% depending on dosage rate and concrete proportioning.

## CONSUMPTION

**EPOCON MR 754** is used in a range of 0.4 to 1.2 Kg per 100 Kg of the cementitious material weight (Depending on climatic conditions, proportioning and other components of the concrete).

## REMARKS

Usage dosages stated hereunder were obtained in laboratory conditions; they may change depending on the characteristics of other components, ambient conditions and water/cement ratio. Therefore, it is recommended that designs and tests should be conducted at sites using preliminary mixture ratios.



## RELEVANT STANDARDS

ASTM C 494 Type D, BS 5075 Part I, BS EN 934 part 2 (TS EN 934-2)

## PACKING

Plastic jerry can (30 Kg), Drums (250 Kg), Bulk (storage tanks can be provided for Bulk use)

## SHELF LIFE

12 months indoors, without opening original package. The product should be stored in a cool, dry storage. Do not store at temperatures below 10 °C or in direct sunlight.

## TECHNICAL INFORMATION

**Typical Engineering Data:** The following data using **EPOCON MR 754** was developed under laboratory conditions and according to ASTM C 494/10a limits Type D.

### Mix Design:

Cement content (OPC) 307 Kg/M<sup>3</sup>  
 Coarse aggregate 30 %  
 Fine aggregate 70 %  
 Admixture Dosage : 0.8%  
 Water/Cement ratio :0.56

Properties	Specification % of Control	EPOCON MR 754
<b>Compressive Strength vs. Control 100%</b>		
3 days	110 %	> 120 %
7 days	110 %	> 110 %
28 days	110 %	> 110 %
<b>Flexural Strength vs. Control 100%</b>		
7 days	100 %	> 100 %
28 days	100 %	> 100 %

Properties	Control Mix	EPOCON MR 754
<b>Setting Time</b>		
Initial Setting	240 min	395 min
Final Setting	495 min	670 min
<b>Length Change ASTM C 157 @28 days</b>	-0.031 %	-0.025 % Pass

## SAFETY PRECAUTIONS

As with all construction chemical products, adequate precautions and care must be taken during usage and storage. Avoid direct contact with foodstuff, eyes, skin, and mouth. Keep away from children and animals. Any direct contact with skin, eyes, etc. should be washed thoroughly with clean running water and soap. Use proper safety wear, goggles, and mask, etc.

## TECHNICAL ASSISTANCE

**EPO GULF SPECIALITIES** technical department with its highly trained and qualified Chemicals Marketing Advisory team provides a complete service in the field. Please consult your nearest service/sales department for assistance. Field services where provided, do not constitute any supervisory responsibilities.

## NOTICE

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