

# MasterCell 10

Foaming agent for lightweight concrete

## DESCRIPTION

**MASTERCELL 10** is a ready to use concentrated liquid foaming agent for producing rheoplastic lightweight foam concrete. **MASTERCELL 10** can be used with all types of Portland Cement.

## RECOMMENDED USES

**MASTERCELL 10** is used in applications where concrete with dry densities of 600 to 1800kg/m<sup>3</sup> is required:

- Insulation concrete - density approx. 600-1000kg/m<sup>3</sup>
- Levelling concrete - density approx. 1200kg/m<sup>3</sup>
- Backfilling concrete - density approx. 1350kg/m<sup>3</sup>
- Encasement concrete - density approx. 1600kg/m<sup>3</sup>

## FEATURES AND BENEFITS

**Produces high foam** Creates lightweight concrete

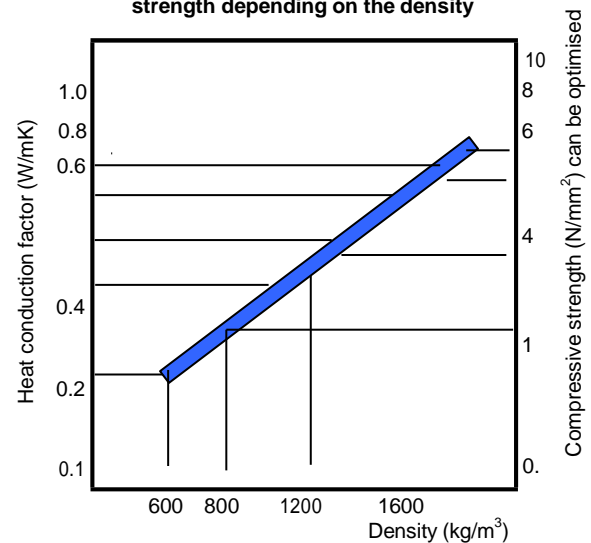
**Reduces heat conductivity** Provides better heat insulation.

## TYPICAL PERFORMANCE DATA

The end user determines the design of **MASTERCELL 10** rheoplastic, lightweight foam concrete. The following typical examples of classes of lightweight concrete are available.

Class	Purpose	Density Kg/m <sup>3</sup>	Heat conduct ion factor W/mk	Strength N/mm <sup>2</sup>
A	Insulation	800	0.28	0.8-1.3
B	Insulation	1000	0.35	1.0-1.6
C	Levelling	1200	0.47	2.0-3.0
D	Filling	1350	0.60	2.0-4.0
E	Subgrade/ encasement	1600	0.80	3.0-6.0

Heat conduction factor and compressive strength depending on the density



## PROPERTIES

Form	: Liquid
Colour	: Colourless
Specific Gravity	: 1.05 kg/L
pH	: 9.5 - 10.0
Temperature Tolerance Range	: 0°C to 60°C
Usage Temperature	: Over 0°C

## APPLICATION

### Dosage

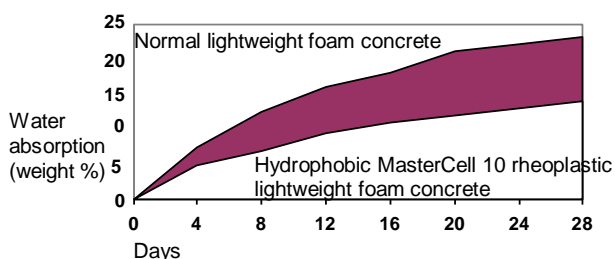
The standard **MASTERCELL 10** apparatus, operating on normal mains water pressure, produces a controllable volume of foam, which is homogeneously mixed in the mobile mixer.

The required amount of foam will be dictated by the target wet density of lightweight concrete. Consult a Master Builders Solutions representative for more information.

## PACKAGING

**MASTERCELL 10** is supplied in 205L drums and 25kg containers.

## Water absorption



# MasterCell 10

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## SHELF LIFE

**MASTERCELL 10** can be stored for 12 months if stored at temperatures above 5°C, in tightly sealed original drums. If found to be frozen, thaw it and reconstitute by stirring.

## PRECAUTIONS

Health : **MASTERCELL 10** does not contain any hazardous substances requiring labeling.

It is safe for use with standard precautions followed in the construction industry, such as use of hand gloves, safety goggles, etc.

For detailed Health, Safety and Environmental Recommendations, please consult and follow all instructions on the product Material Safety Data Sheet.

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