

# MasterCell 20

## Air entraining admixture, in liquid form, for lightweight mortars.

### DESCRIPTION AND WHERE TO USE

MasterCell 20 is an air entraining admixture which is used for obtaining lightweight mortars having a density of 1.600 to 1.800 kg/m<sup>3</sup>.

MasterCell 20 is chloride free, meets UNI EN 934-2 UNI EN 480 (1-2) and it is also compatible with all cements meeting the UNI EN 197-1 and ASTM standards.

### FIELDS OF APPLICATION

- Backfill material for placement around underground storage tanks, pipes, etc.
- Filling of cuts and trenches carrying water and gas pipes, electric and telephone cables, etc. Thanks to its low density and strength it facilitates any future excavation.
- Load distribution layer (like lean concrete).
- Filling of cavities or abandoned underground sites (tunnels, mines, etc.)

### BENEFITS

The use of MasterCell 20 allows to obtain a system of micro air bubbles in the mortar which makes the material very cohesive and easy to place.

MasterCell 20 has the following benefits:

- makes lightweight rheoplastic mortars (density 1.600 to 1.800 kg/m<sup>3</sup>);
- improves cohesion and rheology of the mortar;
- facilitates the pumping of the mortar;
- reduced drying shrinkage;
- optimises the filling of the cavities;
- low compressive strengths (1-2 MPa at 28 days), which facilitates any future excavation;
- easy to dose and use;
- cost effective.

### COMPATIBILITY

MasterCell 20 can be used in conjunction with MasterRheobuild and MasterGlenium superplasticizers.

This will allow to obtain very fluid and non segregating mortars, with limited amount of water. Excess water causes bleeding, segregation and settlement.

### DIRECTIONS FOR USE

MasterCell 20 is added directly into the mixer at the batching plant after all the other components of the mortar have been added. The mortar is then mixed for at least 3-4 minutes in order to obtain a homogeneous mix.

Technical Information	
Form	Liquid
Relative density (g/cc at 20°C)	0.986 – 1.026

### DOSAGE

The dosage of MasterCell 20 is 1 liter per cubic meter of mortar. The amount of air entrained depends upon the type and quantity of the cement used, the fineness of the sand, the water cement ratio, the type of mixer, the mixing time, etc. It is therefore necessary to carry out preliminary field tests in order to optimise the mix design. Regular control of the air content is recommended.

### PACKAGING AND STORAGE

MasterCell 20 is available in 10L cans, 208L drums, 1.000L containers.

MasterCell 20 must be stored in a place where the temperature does not drop below 5 °C.



We create chemistry

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## **SAFETY PRECAUTIONS**

In case of contact with skin or eyes, rinse immediately with clean fresh water. For detailed information, please consult the Material Safety Data Sheet.

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For further information, please consult your local BASF Construction Chemicals Italia Spa representative.

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