



# Cimaxtard 101

## Retarder

**Cimaxtard 101** complies with the EN 934-2.

**Cimaxtard 101** is a retard setting agent with a plasticizing / water-reducing effect for concrete and mortar that acts on hydration reactions of cement.

Its incorporation to concrete and mortar enables :

- a delayed setting,
- better handling,
- a reduced water / cement ratio,
- an increased compactness.
- an increased resistance at 28 days.

### CHARACTERISTIC VALUES

- Light brown liquid
- Density at 20°C :  
1.250 kg/dm<sup>3</sup> ± 0.030
- pH : 6.0 ± 1.0
- Dry matter : 45.0 % ± 2.0 %  
(halogen)
- Dry matter : 43.3 % ± 2.2 %  
(NF EN 480-8)
- Na<sub>2</sub>O<sub>equivalent</sub> : ≤ 6.0 %
- Cl - : ≤ 0.10 %
- Freezing temperature point :  
about - 15°C.
- Viscosity :  
at 20° C ≈ 25 cP  
at 5° C ≈ 35 cP
- Corrosion effect : PND  
- contains components only taken from EN 934-1 : 2008 Annex A1.

### FIELD OF APPLICATION

**Cimaxtard 101** is recommended :

- for mass concrete production,
- for concrete pouring by hot weather,
- for long transportation,
- to avoid construction joints,
- to increase the handling time of gravel cements.

**Cimaxtard 101** is compatible with all cement types (except high alumina cement) but the dosage will vary according to the type used.

## DIRECTIONS FOR USE

**Cimaxtard 101** should be added to the gauging water so that it can be used easily in all mixing plants.

## STANDARDIZATION TRIALS

Trials according to the EN 934-2 norm, carried out on a concrete containing 350 kg/m<sup>3</sup> of CEM I 42.5 CP2 :

Trials carried out with a setting time on CEN mortar.  
dosage = 0.15 %, t° = 20°C.

Dosage	Water	Water resistances in Mpa units		E/C	Mortar setting	
		7 days	28 days		Beginning	End
Control	183	27.8	34.63	0.5	4:33	8:09
Cimaxtard101 at 0.15%	179	32.3	39.7	0.47	7:15	12:00

## DOSAGE

According to the retarder effect desired, from 0.05 to 1.0 kg per 100 kg of cement.

Before use, it is recommended to carry out research and suitable tests under building site conditions (temperature and route).

## PRECAUTIONS FOR USE

- **Cimaxtard 101** can bear several frost/melting cycles without damage but should be entirely thawed and re-homogenized before use.
- It is recommended to store it in a location protected against frost, sun and high temperatures.

## SAFETY

- In case of projection, rinse with water.
- It is recommended to wear glasses and gloves when handling the product.
- In all cases, refer to the material safety data sheets.

## PACKAGING

- Bulk
- Tanks of 1000 liters.
- Barrels of 200 liters.
- Kegs of 30 liters.

## SERVICE LIFE

- Expiration date : 2 years as of manufacturing date.

*The material technical and safety data sheets can be consulted on our internet site :  
<http://www.axim.fr>*