



# Cimplast Néo 20

## Plasticizer / Water reducer

**Cimplast Néo 20** is a plasticizer / water reducer. It complies with the EN 934-2. Due to its exclusive formulation based on modified polyacrylates, **Cimplast Néo 20** is particularly suited for the field of ready to use concrete for making quality concrete, the consistence of which goes from very plastic (S3) to fluid (S4). It provides for cement grain deflocculation, workability, many dosages and a good compatibility with composed cements (for example CEM II and CEM III). Consequently it is a product with a wide scope, easy to use and perfectly suitable for concrete or usual resistance.

Its incorporation into the concrete enables :

- improved workability by keeping a fluid consistency on 90 minutes,
- improved short and long-term resistances by allowing water reductions by 10 to 12%,
- a better concrete compactness,
- a better concrete cohesion hence an improved surface aspect and a lower risk of segregation and bleeding when adding water or changing the additive dosage.

### CHARACTERISTIC VALUES

- Brown yellow liquid
- Density at 20°C :  
1.054 kg/dm<sup>3</sup> ± 0.020
- pH : 4.5 ± 1.0
- Dry matter (halogen) :  
20.0 % ± 1.0 %
- Dry matter (NF EN 480-8) :  
21.0% ± 1.1%
- Na<sub>2</sub>O<sub>équivalent</sub> : ≤ 1.2 %
- Cl<sup>-</sup> : ≤ 0.10 %
- Freezing temperature point :  
about - 11°C.
- Viscosity :  
- at 20° C ≈ 5 cP  
- at 5° C ≈ 15 cP
- Corrosion effect : PND  
- contains components only taken from EN 934-1 : 2008 Annex A1.

### FIELD OF APPLICATION

**Cimplast Néo 20** is recommended in the field of ready-to-use concrete, for usual concrete types.

**Cimplast Néo 20** is compatible with all cement types (except high alumina cement) but dosage will vary according to the type used.

## DIRECTIONS FOR USE

**Cimplast Néo 20** can be introduced into the gauging water or at the end of the mixing according to the type of mixing plant of the performances to be reached.

The best efficiency can be used when the **Cimplast Néo 20** is introduced in a concrete that already contains a part of the gauging water (more than 50%).

## TEST RESULTS

Tests according to EN 934-2

Cement : CEM I 42.5 CP2

Concrete dosed at 350 kg/m<sup>3</sup> cement

Dosage : d = 1.0 % / cement weight (pdc)

Dosage	Water (L/m <sup>3</sup> )	Resistances in Mpa	
		7 days	28 days
Control	192	34.6	41.6
Béton adjuvanté at 1%/pdc	169	44.8	49.7
Gain compared to control	-12%	+29%	+19.5%

## DOSAGE

Depending on the effect desired, **Cimplast Néo 20** can be dosed from 0.15 to 1.60 kg per 100 kg cement.

At maximum dosage, **Cimplast Néo 20** can cause a significant retard setting effect when using the following cement types :

- CEM II/B-M (S-V) 32.5 R,
- CEM III/A 42.5 N LA,
- CEM III/B 32.5 N HSR LA.

Before use, perform preliminary tests under worksite conditions so as to determine the optimum dosage. Axim's Technical Department is at your service to provide assistance with this aspect.

## PRECAUTIONS FOR USE

- It is recommended to store it in a location protected against frost, sun and high temperatures.
- In case of frozen product, let the product defreeze and re-homogenize before testing its stability.

## SAFETY

The product is not considered as "noxious" but the following is recommended as a precaution measure :

- Rinse with water in case of projection,
- Do not swallow,
- 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 litres.
- Barrels of 200 litres.

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