



Very
High
Durability
Reinforced
Concretes

From Project to Jobsite



Certified Quality System since **FEBRUARY 1993**

Tecnos® *azur* CB/ER PJ2

POLYCARBOXYLATE SUPERPLASTICIZER FOR READY-MIX LONG WORKABILITY CONCRETES

CE approved – Certificate n. 1305 - CPD - 0017
EN 934-2 T3.1/T3.2

Description Tecnos® *azur* CB/ER PJ2 is a superplasticizer of the 4th generation, with high superplasticizing efficiency, with low water/cement/ratio, particularly formulated both for use in concrete ready-mix plants and for the Prefabrication.

Advantages and characteristics To take the best advantage from the excellent superplasticizing and rheodynamic performances of Tecnos® *azur* CB/ER PJ2, it is advisable to use the product together with the retarding PLASTARD® 18 PJ with proper dosages in order to obtain suitable workability times in function of the transportation distances and of the climate conditions.

Tecnos® *azur* CB/ER PJ2 polycarboxylate formulation of the last generation, provide practically the following performances :

- **strong reduction of the mixing water with the same workability** with consequent excellent increases of the mechanical strengths, waterproofing, resistance to CO₂ penetration , increases of durability for all the exposition conditions according to EN 206-1 Standard.
- **very strong increases of the workability with the same water/cement ratio**, Self Compacting Concretes (SCC) can be obtained.
- **quantity reduction both of water and cement demand** (particularly for concretes where high dosages of cement are expected) with the same consistence with consequent costs saving, reduction of the hygrometric shrinkage, reduction of the heat of hydration and of the temperatures in massive casting, possible increment of stiffness in the structures.
- Together with PLASTARD® 18 PJ, long workability of concrete also with hot climate and long transportation distances can be obtained.
- The particular reactivity of the polycarboxylate components allows very effective formulative adjustments in function of the reactivity of the particular cements used with consequent technological and economic advantages.
- Concretes with Rck ≥ 85 MPa can be obtained.
- Our Project Promotion Assistance Office is at disposal for any technical assistance.

The product is compatible with the following additivations and treatments :

- **Retarders** : PLASTARD® 18 PJ (recommended)
- **Reactive microsilica** : Microbeton® POZ, Microbeton® POZ/H
- **Reducing agent of hygrometric and autogenous shrinkage** : SHRINKO-tec® nano
- **Expansive agent** : CEMEX M-1000
- **Air entraining agent** : XARLON® 21
- **Curing compounds for exposed concretes** : CURING COMPOUND UR 19 and UR 20
- **Demoulding oil** : BH 4 (for easy demoulding to achieve aesthetically perfect surfaces)

Fields of use Together with PLASTARD® 18 PJ for ready-mix concretes particularly in the concrete mixing plants maintaining the workability (or class of consistence) also with very long transportation distances; it is suited to make all necessary Mix Designs for each Class of Consistence, Resistance, Exposition, Durability according to the European Standard EN 206 with excellent technical, economical, qualitative and durable advantages.

Method of use To achieve highest efficiency, do not add directly to dry aggregates, but to aggregates preventively saturated with water. Add the admixture during mixing into the mixer or concrete truck together with the water needed to prepare the concrete.



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Packaging Bulk
Can of 5 Kg and 20 Kg
Drum of 220 Kg
IBC of 1000 Kg

Specifications Tecnos® *azur* CB/ER PJ2 meets the requirements contained in EN 934-2 prospect T3.1/T3.2 and has obtained the **CE** mark for concrete admixtures. The product is not compatible together with super plasticizers based on naphthalene sulphonates.
Consult our Technical Service team for assistance in special Mix Designs.

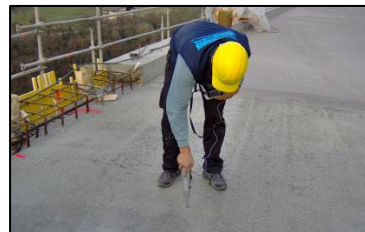
Storage The product can be kept for minimum 1 year when stored in a dry place, in the closed original packaging, at temperatures between +5°C and +35°C.

Recommendation: As for all the products based on polycarboxylates, and when the product is stored for a considerable period, the material tends to separate (fasten in case the temperature is higher), with at the surface the homogenizing agents and anti-foam, contained in the formula. It is strongly recommended to homogenise the product using an air driven 'bubbling device'. Consult our Technical Department for more information or for installation of a tank with pre-installed device.

Safety indications Read carefully the safety indications on the packaging, or consult the relevant Material Safety Data Sheet of this product.

WITH OUR ENGINEERS AND OUR MOBILE LABORATORIES

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The above information is based on our best experiences and lab results and on results of the application of the product in various fields. Tecnochem Italiana is not responsible for negative performances due to not proper use of the product or for defects due to elements not connected with the quality of the product included wrong storage. Technical characteristic in this technical data sheet are up-to-dated periodically. Revision date of this technical data sheet is indicated below.

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Nr. rev.: 3

Tecnos® *azur* CB/ER PJ2

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