



Very
High
Durability
Reinforced
Concretes



Certified Quality System since **FEBRUARY 1993**

From Project to Jobsite

XARLON® 21 CONC

CONCENTRATED AIR ENTRAINING AGENT FOR CONCRETE AND MORTARS

**CE approved – Certificate n. 1305 - CPD - 0017
EN 934-2 T5**

Description XARLON® 21 CONC is a concentrate solution of special tensio active additives which is studied to entrain air in concrete with the highest stability.
XARLON® 21 CONC allows the exact control of the amount of air to be introduced in the concrete.

Advantage

- improvement of the plasticity of the fresh mortar
- reduction of the mixing water without lost of workability
- reduction of segregation and bleeding
- good plasticity of even poor quality mortars with sharp aggregates and less fines.
- Optimal resistance to frost/thaw damage of the hardened concrete
- Better resistance of the hardened concrete to sea water and deicing salts
- Optimal mechanical resistance

Fields of use

- for each concrete where it is needed to control the amount of air to be introduced.
- in the production of concrete for blocks , tubes, and other concrete prefab elements.
- in all concrete exposed to frost.
- In combination with TECNOS® concrete can be improved to an optimal mechanical resistance, minimum permeability and exceptional resistance to frost thaw action.
- In combination with the PLASTIXIM® plasticizers or PLASTARD® retarders, concrete can be improved to an optimal mechanical resistance, minimum permeability and exceptional resistance to frost thaw action.
- For the improvement of the workability of masonry mortars.

Remark : in case of combining with other additives, always add XARLON 21 CONC separately from the concrete.

Note : XARLON® 21 CONC can not be diluted with water or mixed with other products to avoid problems with stability and deposits. It must be added to the concrete always in the pure form, and separately from the other additives.

Method of use Add together with the mixing water during the first phase of concrete mix

Remarks XARLON® 21 CONC is not flammable and is not harmful.

Packaging Available in bulk
Can of 10 or 20 kg.
Drum of 220 kg
IBC of 1000 kg.

Storage Store the product in dry and protected conditions, over 0 °C.
Avoid freezing. In case of freezing the product is no useful anymore.



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- Dosage** 10-150 g of XARLON[®] 21 CONC per 100 kg cement depending on the specific circumstances and the amount of air desired in the concrete.
It is advisable to perform a test with all the typical ingredients in order to fine-tune the finale necessary dosage. The amount and type of cement, the aggregates, temperature, mixing time,.. are important parameters.
- Effect of overdosage** Overdosage, accidental or designed, lead to a very air-rich concrete. A quick determination of the density of the concrete can assure the amount of air entrained; this can help to determine if the amount of entrained air is on an acceptable level. More accurate tests can be made with the standard measurement device for determination of the air content.
- Specifications** XARLON[®] 21 CONC meets the essential requirements according to EN 934-2 Normative, Classification T5 according to CE marking for Concrete Admixtures. Furthermore, its own performances meet and exceed the limits imposed by all the specifications concerning the concrete technology.
- Cement compatibility** XARLON[®] 21 CONC can be used with most common types of cement like Portland, Pozzolanic or Blast furnace,...., available on the market.
- Compatibility with additives** XARLON[®] 21 CONC must be added to the concrete always in the pure form, and separately from the other additives. XARLON[®] 21 CONC is compatible in the concrete with all the other additives of TECNOCHEM, and especially with the superplasticizer, and fluidizers. The use of XARLON[®] 21 CONC with these admixtures, and specially with PLASTARD[®] 10, lead to a reduction of the dosage of the air entrainer.
- Safety indications** Read carefully the safety indications on the packaging, or consult the relevant Material Safety Data Sheet of this product.

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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