



PRODUCT No.: 3.112

TECMACONS SF-20

SUPERFLUIDIZING, REDUCING MIXING WATER

CHARACTERISTICS:

TECMACONS SF-20 is an admixture for concrete, based on synthetic polymers, which, due to its high dispersing power, makes possible a complete and faster hydration of cement granules. It's supplied ready to be used, in liquid state, clear and with a density of 1,2 kg/l. **TECMACONS SF-20** is practically free from chlorides (contents in chloride ions: less than 1%) thus not producing corrosion in the reinforcement.

TECMACONS SF-20 fulfils UNE 83.282 standard.

Main function: superfluidising, reduces the amount of water.

The use of **TECMACONS SF-20** provides the following advantages:

FRESH CONCRETE:

- Great increase of workability
- Reduces segregation and bleeding
- Easy to be transported and applied, keeping the mass homogenous.
- Reducing or preventing compaction by vibration, thus saving labour.

HARD CONCRETE:

- High increase of mechanical resistance for every age.
- High quality surface finish.
- Improves waterproofing and chemical resistance.
- Increases adherence to reinforcement.

USES.

a) As fluidising agent:

With **TECMACONS SF-20** it is possible to prepare concrete considered as **SELF-LEVELLING** with highly fluid consistency, easy transport and compaction. It's possible to reduce the use of vibrators in most of uses, keeping or even increasing the final resistance of concrete.

TECMACONS SF-20 is especially recommended for:

- Elements with great reinforcement density
- Pre-cast elements.
- Slabs, foundations, floors.
- High quality surfaces.



b) As hardening accelerator (reducing water):

TECMACONS SF-20 allows reducing the amount of mixing water, being possible to reach up to 30% reduction, thus highly increasing the initial resistance of concrete. As hardening accelerator, its use is recommended for:

- Pre-cast elements
- Pre-tensed constructions
- Bridge building
- Building elements in which it's necessary a short unmoulding time or which have to receive charges immediately.

METHOD OF USE.

TECMACONS SF-20 is supplied ready to be used. If possible, add just before placing the concrete and remix at least for 1 minute per m³.

Add **TECMACONS SF-20** about **0,7** and **1,5%** of cement weight, when used as fluidising agent.

When used for reducing the amount of mixing water, in order to speedup hardening, the dose varies between 1 and 3% of cement weight, depending on the desired results and the reduction in the amount of water.

PACKAGING AND STORAGE:

TECMACONS SF-20 is supplied in 30 and 60 kg original and non-reusable containers. In the original containers, provided they're tightly closed and in a warm and dry environment, the product can be stored for two years, not losing efficiency or yield. Avoid storing in cold places. In case of intense and long frost, verify stability. In case of freezing, thaw slowly while stirring and the product will recover its initial properties.

PRECAUTIONS:

Do not swallow. Keep out of the reach of children. In case of contact with skin, wash with plenty of clean water.

ADVANTAGES

- Unexpensive.
- Low doses.
- Strong fluidising power.
- High increase in the initial resistance.
- High capacity to reduce water/cement rate

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