



Technical Data

Physical State:
liquid

Colour:
amber

Bulk weight (ISO 758):
1.05 kg/l ± 0.02 g/cm³

**Percentage in dry matter
(EN 480-8):**
18%

Chlorides:
none

Main chemical action:
highly fluidifying

Secondary chemical actions:
it traps less air bubbles and improves quarry faces. It extends its workability time.

Proportion:
from 0.5 to 1.2 kg per 100 kg of cement

Available in:



20-kg
canisters

200-kg drum



- 1,000-kg tank

DRACRIL 1000



High performance polycarboxylic acid superfluidifier for ready-mixed and prefabricated concrete industries



DESCRIPTION

DRACRIL 1000 is a high performance carboxyl-ethoxylated superfluidifier. It is specifically designed to be workable for a longer time and increase concrete resistance over short curing. DRACRIL 1000 is an additive that complies with UNI EN 934-2 regulations.

APPLICATIONS

DRACRIL 1000's features make this product particularly suitable for:

- ready-mixed high-resistance concrete later supplemented with silica fume, fly ash, slag additives, etc.;
- Concrete handwork with very low W/C-ratios and resistant to aggressive agents, such as chlorides, sulphates, carbon dioxide;
- Casts of structures with thin cross sections;
- Concrete reinforced with steel fibre FIBERMIX;
- Shrinkage-compensating concrete along with the use of expanding agent EXPAN 25;
- Self-compacting concrete in combination with rheological additive FLUIBETON TX.

ADVANTAGES

DRACRIL 1000 has the following advantages:

- It can be used to produce high-performance concrete with low W/C-ratios (0.4) and superfluid consistency (S 5) so as to increase its life cycle.
- It keeps its consistency features unchanged for more than an hour according to the W/C-ratio and cement type used.
- If you add FILLCRETE (Silica Fume) or fly ash, a larger proportion of DRACRIL 1000 than the weight of the concrete, you can produce special kinds of concrete, such as HPC concrete and RPC concrete.
- The resulting concrete develops high mechanical strength to short curing even if its heat cycle is short.
- It can produce long-term concrete particularly resistant to aggressive agents.
- It can cut down on the costs for concrete casting because it increases workability time.
- It makes it easy to cast concrete into thin cross sections even if many reinforcement bars are in place.
- It helps avoid segregation and bleeding, but it makes concrete stiffer and more homogeneous.
- It takes less time to vibrate concrete or, in the case of self-compacting concrete, it can give the chance to skip the concrete vibration process if it is used in combination with FLUIBETON TX. In this way it offers great technical application advantages and it reduces the exposure to noise.
- It improves the quality of concrete for quarry faces and the concrete-iron adhesion, but it also increases the abrasion resistance of every concrete mix. It ensures a better surface finishing and it reduces the amount of trapped air bubbles.
- It reduces creep rates and hygrometric shrinkage, but it increases the adhesion to reinforcement bars.

COMPATIBILITY

DRACRIL 1000 is compatible with every cement type and class. If you need a very durable concrete particularly resistant to frost and thaw, you should combine it with AERBETON aerating agent.

WORKABILITY TIME

If you add DRACRIL 1000 to a concrete mix, it can easily be workable for a period of time that ranges from 60 to 90 minutes. This time span depends on the type and proportion of cement in use. After carrying out some practical tests, you can find out how to properly use this product.

Technical Data**Storage:**

12 months, non-frost proof

Noxiousness level in compliance with 88/379 EEC:

no

Inflammability:

no

Customs code:

3823/4000/0

PROPORTIONS AND INSTRUCTIONS

0.5 - 1.2 kg of DRACRIL 1000 per 100 kg of cement should be added to the mix. You can increase this proportion if necessary. Please contact DRACO Italiana S.p.A.'s technical department for more information.

Pour DRACRIL 1000 into the cement mixer with mixing water. To get the best results, you should add DRACRIL 1000 to the concrete already mixed with approximately 80% of the total mixing water.

DRACRIL 1000 should not be poured onto dry aggregates and cement. This may result in a performance reduction because aggregates could partially soak the additive. To properly proportion this product, DRACO Italiana S.p.A. supplies special batching plants.

PACKAGING & STORAGE

- 20-kg canister

- 200-kg drum

- 1,000-kg tank

DRACRIL 1000 is loose in tanks. Warm up and mix it before use, if it is stored at a temperature lower than 5°C. This product keeps its features unchanged for one year if properly stored in its original package.

CONCRETE CURING

It is particularly advisable to take appropriate measures to protect concrete from quick evaporation after casting, in particular in dry, hot windy climates. In order to achieve the best results, you should use PROBETON CURING N.

SPECIFICATION ITEM

To get the best technical results, DRACRIL 1000 by DRACO Italiana S.p.A., an acrylic chloride-free superfluidifier, should be added to the concrete used in these specifications.

DRACRIL 1000 complies with UNI EN 934-2, table 3.1 and 3.2. The additive should be used according to the manufacturer's recommendations. DRACO Italiana S.p.A.'s qualified personnel will provide technical assistance upon request.



QUALITA' PER L'EDILIZIA