



## TIMM-CAR 137-N

High activity water reducing /superplasticizing nanosilica additive for concrete and high-performance sprayed concrete

### Description

High activity water reducing /superplasticizing nanosilica additive for concrete and high-performance sprayed concrete

### Field of application

TIMM-CAR 137-N is a high activity water reducing /superplasticizing nanosilica additive based on polycarboxylic ethers, perfect for concrete production, tunnels, sprayed concrete and high strengths. Its high plasticizing capacity, along with its ability to maintain consistency, without delaying the setting time, makes TIMM-CAR 137-N the ideal additive for concretes used in underground and high performance constructions.

- Traditional microsilica applications
- Ready-mix concrete

### Properties

- High water-reducing and plasticizing capabilities
- High quality finishes
- High resistance at short ages
- Increases initial and final concrete resistance
- Maintains great consistency.
- As it reduces porosity, it improves the concretes water-tightness and durability
- Allows for liquid and self-compacting concrete (H.A.C) of low R A/C, without segregation nor bleeding, starting from dry consistencies.
- Does not delay setting times
- Reduces cure cycles (both time and temperature) even eliminating them completely
- Facilitates its installation and vibration compaction
- Low alkali content
- Increases production performance

### Product preparation

TIMM-CAR 137-N is added to the concrete with the final part of the mixing water.

It can be combined with other TIMM additives, always after having been tested and under the supervision of TIMM technical staff, as nanosilica will increase the resistance with more dosage.

### Dosage

The common dosage will be between 0,7% and 2% of the cement weight, according to desired workability and water

reduction. Do not add the product to dry cement mass or aggregates.

### Handling and transport

Usual health and safety precautions must be observed when handling chemical products, with the use of safety goggles and gloves, for example.

Hands must be washed before any pause and after handling the product.

Do not drink, eat or smoke during its application.

The elimination of the product and its packaging must be done according to current laws and is the end users responsibility.

For more information, please consult the product Safety Sheet.

### Please note:

- Tests are recommended to be carried out prior to the use of the product
- Do not use higher nor lower dosages than those recommended without consulting our Technical Department.
- Please consult the compatibility of additives before its usage.

### Properties

- Main function: High activity water reducing /superplasticizing nanosilica additive
- Secondary effects: Risk of disaggregation at high dosages
- Colour: Dark honey
- pH 20°C: 5.4 +- 1
- Density, 20°C: 1.03 +- 0.02
- Dry extract: 15.1 +-1.5%
- Chloride content: <0.1%
- It is completely eliminated in silica smoke and microsilica powder and high water absorption and itself and a low relative R a/c

The technical data offered are statistic results and do not represent guaranteed minimums. If you wish, you may request from the Technical Department the "Sales Specifications Sheet" which contains the control data.



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## **Packing and Storing**

**Packing:** 1.000kg cages, 220kg containers and in bulk

**Storing:** 12 months in its original packaging and protected from temperatures of between 5°C and 35°C

## **Standards**

It meets the UNE -EN934-2-2002; UNE EN-934-2:2001. Table 3.1 and 3.2

### **Please note:**

The information and technical data herein are advisory in nature and are subject to modifications without prior notice. They are based on data and understandings that are considered to be true and precise. However we have no control whatsoever over the conditions within which our products are transported, stored, handled or used by our clients. For this reason our guarantee is limited exclusively to the quality of the product. No information or recommendation should be interpreted so that it infringes any current standard or statutory obligation.