



# NOVACEM PRONTO

## Reduced weight cement screed for floors

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- ▷ **Excellent workability with good mechanical strength**
  - ▷ **Pumpable mortar with reduced weight**
  - ▷ **High adhesion to most common construction materials**
  - ▷ **High resistance to ageing**
  - ▷ **For thicknesses of 2 to 15 cm**
  - ▷ **Approved for the naval industry**
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### Description

NOVACEM PRONTO is a cement based one component screed. It is suitable for creating floating or bonded floor screeds in internal and external areas. The reduced concrete weight of mortar by 30-40%, compared to conventional, makes it ideal for renovation and new construction. It is pumpable, has good mechanical strength and can be applied in thicknesses from 2 to 15 cm in a single layer.

### Certifications

CE Marking and Declaration of Performance (DoP) C06077-CPR-2155042 as floor screed for internal and external use, category CT-C7-F2-A22.

Suitable for applications in the naval industry as part of the NOVAMIX MARINE FLOORING SYSTEM. The notified body BUREAU VERITAS 0062, has issued the Certificate No.: 23563/B0 EC.

### Uses

NOVACEM PRONTO is suitable for:

- Construction and repairs with reduced load requirements such as residential and naval
- Filling floors with pumpable mortars
- Floor levelling prior to the application of ceramic tiles, natural stones, etc.
- Floor renovations
- Creating bonded screeds of minimum 20mm up to 150 mm thickness
- Creating floating screeds of minimum 50mm up to 150 mm thickness

## Technical Data

### Product Identity

Form	Powder
Color	Grey
Chemical substance	Portland cement, aggregates, special additives
Granulometry	Dmax : 1.6 mm
Bulk density	1.8 ± 0.1 kg/L
Storage	12 months on dry area in the original sealed packaging

### Application Data (+23°C % & 50% R.H.)

Mixing ratio	2.75 – 3.25 L water for 25kg
Density of the mix	1.3 – 1.6 ± 0.05 kg/L
Application temperature	from +5°C up to +35°C
Workability	≈ 45 min / 20°C
Application thickness	20 – 150 mm
Walkability	4 - 6 hours

### Final performance with W/C 12%

	Performance	Method
Flow characteristics	200 ± 10 mm	EN 1015-3
Compressive strength	> 7 N/mm <sup>2</sup>	EN 13892-2
Flexural strength	> 2 N/mm <sup>2</sup>	EN 13892-2
Chloride ion content	≤ 0,02 %	EN 1015-17
Wear resistance	≤ 22 cm <sup>3</sup> /50 cm <sup>2</sup>	EN 13892-3
Reaction to fire	A1	EN 13501

## Application Procedure

### Substrate Preparation

The substrate has to be compact, clean, free of grease, oil and laitance and any substances which may compromise the adhesion of NOVACEM PRONTO. Existing cracks in the concrete surface must be properly repaired. The levelling mortar should be separated from the vertical elements of the construction (walls, columns etc.) in its total thickness, by means of a deformable band of 5 - 10 mm. Existing construction movement joints from the substrate should not be covered from the levelling mortar.

### Preparation of the mix

Mix the content of the 25kg paper bag with 2.75–3.25 liters of clean and fresh water with an electrical stirrer by high speed for at least 3–5 min or by using construction mixer, until a viscous uniform mortar free of lumps is obtained. In this way the specific weight of the dry mortar we achieve is 1.3-1.4 kg/L. If a concrete mixer is used with a mixing time of 3-5 minutes, the specific gravity is set at 1.5 – 1.6 kg/L. Lower turns as well as shorter mixing time (2-3 min) give mortars with a higher final density of 1.6-1.8 kg/L.

### Application

NOVACEM PRONTO is applied in the same way as a typical floor screed: preparation of guides, application of the fluid mortar after mixing. Levelling of the surface can take place by means of metallic bar and smoothing by using a suitable metal trowel.

For bonded screeds (20 - 50mm) it is recommended to apply first a bonding slurry composed of 3-4 parts of Portland cement 1 part of water and 1 part of enhancing latex like NOVAMIX SBR 50. Apply the NOVACEM PRONTO mortar wet on wet. In cases where the application is interrupted, it is required to connect the two screeds by means of metallic mesh (dimensions 20 x 20 cm, diameter of 5mm) in the total length of the connection and application of bonding slurry.

For floating screeds with minimum thickness of 50 mm should take place on a level substrate covered with polyethylene sheet or similar membrane, where each sheet overlaps the other at least 20 cm, making sure to continue also on the vertical elements (in example walls) in the total thickness of the screed.

The start of coating work varies depending on the application thickness and the environmental conditions of the space and the substrate. The following waiting times for the installation of ceramic tiles are indicated as indicative.

Screed thickness in cm	Waiting time in days
4	2
8	4
10	8
12	10
15	14

Obtaining data under laboratory conditions. Values may vary depending on the specific conditions prevailing at the construction site.

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#### **Recommendations**

NOVACEM PRONTO should not be applied:

- In cases where the substrate and environment temperature are less than +5°C or higher than +35°C
  - On substrates with tensile strength less than 1,5N/mm<sup>2</sup>
  - Directly on anhydrite, metal or flexible substrates
  - On substrates with rising damp
  - On substrates not properly prepared or primed
  - On friable or non-properly cured substrates
  - Over existing expansion joints
  - Do not exceed 15 cm thickness per layer
  - Under direct sunlight and/or strong drying wind
- Also note the following
- Never exceed the maximum recommended quantity of mixing water
  - Do not add cement, lime, gypsum or other binders or substances which may affect the mortar characteristics
  - In any case you should ensure that the residual humidity is lower than that required by the coating product.
  - Application should be performed by professional users

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#### **Consumption**

The average NOVACEM PRONTO consumption is 13–16 kg/m<sup>2</sup>/cm of thickness.

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#### **Cleaning**

Tools, buckets, tiles etc. Can be cleaned with fresh, clean water as long as, NOVACEM PRONTO is still fresh. After hardening occurs, cleaning can take place by mechanical means.

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#### **Storage**

NOVACEM PRONTO remains stable for 12 months from production date stored inside its original sealed packaging, stored in protected dry area in temperature between +5°C and +35°C.

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#### **Packaging**

Multi-layer paper bags of 25 kg

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#### **Safety Instructions**

For information and instructions regarding disposal and safe handling, users should refer to the latest Safety Data Sheet of the product containing ecological, toxicological and other safety-related data.

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#### **Legal Notes**

The technical data and recommendations contained or listed in this leaflet are the result of laboratory measurements, of our current knowledge and experience. All the above-mentioned information and specifications should in any case be considered as indicative, as they may differ from each other. The

Company makes every effort to ensure the accuracy of the information provided herein. Product specifications, prices and availability are subject to change without notice and may differ from those shown.

In practice, variations in materials, substrates and on-site implementation conditions are such that no warranty can be given or implied, as to the merchantability or suitability of the materials for a particular purpose and for the exact conditions of each project. Anyone interested of using the product must be sure beforehand that the product is suitable for the intended use and in any case, the user is solely responsible for any consequences due to the use of the product. Among other things, the Company is not responsible for any normal wear or tear from environmental or other inappropriate conditions. We reserve the right to revise or change the data herein without prior notice.

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For the latest and a valid version of the Technical Data Sheet, the user of the material must refer to our website [www.novamix.gr](http://www.novamix.gr) or directly to the QR Code of the product.



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