

Nonset® 50 / 50 FF / 50 SR – Nonset® 120 / 120 FF –
Nonset® 400 / 400 FF. Expanding mortar.

PRODUCT DESCRIPTION

Nonset® is a cementitious dry mortar which expands 1 – 3% before setting. The mortar consists of cement, well graded sand, expanding, stabilising and plasticizing additives.

The frost resistant variants (FF) also contain special additives which enable curing down to -25°C.

Nonset 50 SR is a variant containing sulphate resistant cement.

AREA OF USE

For bolt anchoring, injection, joint filling and grouting under baseplates in thicknesses of 5 - 150 mm.

There are two main types of mortar, which are each supplied in 3 standard variants.

These have a different max. particle size and different water requirements according to the various intended applications.

The mixture must be placed within 45 minutes of mixing to ensure maximum expansion.

DIRECTIONS FOR USE

Preparation

Surfaces to be in contact with **Nonset** must be free of loose concrete and contamination. The concrete should then be pre-soaked, preferably the day before to allow excess water to evaporate. Free water in and around depressions and projections must be blown away.

At temperatures below 0°C the surface should be defrosted and any ice removed, e.g. using a propane torch.

Mixing

Nonset®-mortars require only the addition of water. Mix for at least 3 min. until a uniform lump free consistency is obtained. Do not add more water than is necessary as too much water can lead to segregation, reduction in strength and a poor result.

For smaller operations a drill with whisk attachment can be used for mixing, and small quantities can be mixed by hand. For larger operations use a forced action mixer or a mortar mixer.

For frost resistant variants use warm or hot water, adjusted so that the temperature in the fresh mixture is approx. +20°C, and never above +30°C.

Form construction Baseplate grouting

Formwork must be leakproof, well secured and with a raised level of 25 – 50 mm.

Construct a funnel on one side for pouring the mixture into. Make a 10 – 20 mm clearance on the other sides in order to control the filling and for rodding of the mixture. If the mixture is to be pumped place the hose in the centre of the form so the mixture flows out equally in all directions.

Placement

Pour the mixture into the form. Knock carefully on the sides of the form and rod the mixture e.g. with a thin reinforcing bar, to aid the flow and eliminate air pockets.

Mixing and placement must be a continuous uninterrupted process until the form is full. Use of a special pump is recommended for large scale operations.

Bolt grouting

Use **Nonset 50** or **Nonset 50 FF**.

Mix and pump the mortar using suitable equipment. The mortar should be mixed to a creamy consistency. Thread the feeding hose into the bottom of the bolt cavity and begin pumping. Withdraw the hose slowly as the hole is filled, then set the bolt in place. For vertical holes in ceilings/roofs it may be necessary to secure the bolt with a wedge or similar until the mortar has set.

Injection

A rapid mixer must be used for **Nonset 50 / Nonset 50 FF** e.g. colloid

mixer and activator to keep the mixture in constant motion.

Cable injection

Blow through cable conduits to check that they are open and to remove any free water. Remove ice by pumping through water mixed with alcohol.

The whole mixture must be kept in motion (activator) during the injection process. This is particularly important to achieve a good result with

Nonset 50 FF.

Stop the injection work at regular intervals e.g. every second hour to wash equipment and rinse through hoses to remove any build up of old mixture.

Curing

The most reliable and effective method is the immediate application of a curing membrane to exposed surfaces, and to begin watering the next day and for 3 – 4 days afterwards. Covering with plastic sheeting is also effective and is the preferred method for surfaces which are to be painted over.

SAFETY INSTRUCTIONS

For health, safety and environmental information, see separate HSE data sheet at www.resconmapei.com

WARNING

Although the technical details and recommendations contained in this product report correspond to the best of our knowledge and experience, all the above information must, in every case be taken as merely indicative and subject to confirmation after long-term practical applications: for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application; in every case, the user alone, is fully responsible for any consequences deriving from the use of the product.

All deliveries from Rescon Mapei AS are made in accordance with the sale- and delivery conditions applicable at the time, and these conditions are taken to be accepted on placement of an order.

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Technical specifications measured in the laboratory at 20°C and 50% RH

Expansion:

1 – 3 %

Bleeding:

0 – 0.5 %

Quantity of water per bag

- high viscosity consistency:

- low viscosity consistency:

D max.:

Layer thickness:

Compressive strength, 28 days at 20°C:

Nonset® 50**Nonset® 120****Nonset® 400**

9.0 ltr.

3.5 ltr.

3.0 ltr.

10.0 ltr.

4.5 ltr.

4.0 ltr.

0.2 mm

1.5 mm

4.0 mm

injection/grouting

15 – 20 mm

30 – 150 mm

48 – 53 MPa

71 – 77 MPa

62 – 68 MPa

Nonset® 50 FF

Compressive strength, 28 days - at +15°C:

Nonset® 120 FF**Nonset® 400 FF**

- at -15°C:

45 – 49 MPa

60 – 67 MPa

59 – 64 MPa

30 – 37 MPa

28 – 36 MPa

25 – 30 MPa

Development of strength:

The curves refer to compressive strength testing of specimens 40 x 40 x 160 mm. Water addition is 9.5 l for **Nonset 50** mortars and 4.0 l and 3.5 l for **Nonset 120** and **Nonset 400** mortars respectively.

Material consumption:

Nonset® 50: 1.6 kg per litre of mixture

Nonset® 120/400 2.0 kg per litre of mixture

Packaging:

48 bags per Europall (1200 kg), shrink wrapped

Storage:

Stored frost free and in unopened packaging, product properties remain unchanged throughout the first 12 months.

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