

BETONAC®-XR85

QUICK STRENGTH REPAIR MORTAR

Product Description

BETONAC®-XR85 is a very dense high strength mortar especially designed for concrete repairs where very short setting times and fast strength development is required. BETONAC®-XR85 contains ultra fine mineral particles to fill the voids between the cement grains, shrinkage compensating additives and specially selected aggregates from 0 - 2 mm. To arrange this very dense particle system special additives are used. The ready mixed powder, when mixed with water, produces a flowing mortar with a perfect inner coherence. The hardened mortar can be reopened to traffic after a few hours. BETONAC®-XR85 is non-flammable, non-toxic and safe to use.

Uses

BETONAC®-XR85 is used as concrete repair mortar under circumstances , where density, very early strength development and high final strength is needed. BETONAC®-XR85 is especially well suited to protect concrete floors in chemical, mechanical and food industry, besides bridges and airport runways where the damaged area has to be reopened to traffic very fast after being repaired. BETONAC®-XR85 can be applied in a thickness from 8 - 20 mm. By adding 2/5 mm or 5/8 mm aggregates the mortar can be changed to a repair concrete and a thickness of up to 60 mm can be cast.

Advantages

- Develops very fast early strength
- Perfect bond to existing concrete
- Micro crack control
- Perfect protection of embedded steel reinforcement
- High resistance to freeze/thaw

Technical Data

Compressive strength N/mm² (at 20 °C)

4 Hours	30
1 Day	55
7 Days	62
28 Days	85

Flexural strength N/mm² (at 20 °C)

4 Hours	4
1 Day	7
7 Days	9
28 Days	12

Setting time: 40-50 min (at 20 °C)

ASTM-Flow 0/20 cm: 15/23 cm

Density: ~2400kg/m³

Stock life: 20-30 min.

Product Data Sheet

Product No: 04.062

Application

General information

Preparation: Careful and proper preparation of the concrete substrate is essential to any successfully placing of BETONAC®-XR85 topping on existing concrete. The durability of the hardened mortar can only be as good as the integrity of the bold concrete and the substrate. Wet the concrete thoroughly and completely abrade the concrete to produce a sound substrate with a good mechanical key. Keep the concrete wet several hours before the placement of BETONAC®-XR85. The substrate should be water saturated but without any free water on the surface. A well exposed, clean and wet aggregate surface is ideal. The substrate must be free of contamination.

Method of application

BETONAC®-XR85 can be placed both manually by hand troweling or cast in formwork. By hand troweling or when cast as a flowing mortar no vibration is necessary. By viscous or stiff casting of the mortar it is recommended to vibrate to air the mortar. It is recommended to float the surface immediately after placing, using a steel- or plastic float. When cast as a flowing mortar for thin topping on floors BETONAC®-XR85 can be levelled by using a spike roller. Immediately after finishing the surface must be protected against evaporation by plastic sheets or CURESIN concrete curing compounds.

Mixing: BETONAC®-XR85 is mixed in a paddle pan mixer by adding the water slowly to the powder during mixing. The mixing time should be at least 3 minutes after adding all the water.

Cleaning

Equipment and tools must be cleaned thoroughly with water immediately after use. Hardened material can only be removed by means of mechanical tools.

Safety Instructions

Safety precautions

BETONAC®-XR85 is cement based non-toxic and safe to use. However, when mixed with water, a strong alkali is liberated. Wear protective clothing and a dust mask while mixing and applying the material.

Legal notes

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