JOOTEBETOON C70

NON-SHRINK CONCRETE C70

Compressive strength class C55/67

EVS-EN 206-1:2014

A pumping and hand-laying grade, weather resistant and easy flowing fine-grained dry concrete.

FIELD OF APPLICATION

Installation of concrete elements and joining of patching bays.

Anchorage installation and soldering.

Filler concrete applications in narrow spaces.

For indoor and outdoor use.

PROPERTIES

Minimum compression resistance of hardened non-shrink concrete is **70 MPa** pursuant to EVS-EN 206-1:2007 provided 16% water is added to dry mix.

Flow properties of non-shrink concrete is **110 mm** pursuant to EVS-EN 13813:2005 provided 20% water is added to dry mix. Rapid strength development and stable volume.

COMPOSITION

Silica sand, granite sand, cements, binders, plasticisers.

PREPARATIONS

Clean dust and loose particles from the substrate.

To achieve better adhesion moisten the substrate with clean water prior to casting.

When building a mould, it has to be precise and tight to prevent the mix flowing out of the mould.

When soldering anchors and other steel structures ensure that the steel surface treatment has become passive. Unpassivated zinc reacts with the fresh concrete compound, resulting in the formation of hydrogen, which reduces adhesion between steel and concrete.

When hand-laying pour the required quantity of the dry mix in the mixing bowl or mixer.

Add water 16–20% of the mix weight (4–5 litres per 25 kg bag).

Stir until the mixture is completely wet.

The optimum temperature of the concrete mass is +10 to +20 °C. Lower temperatures slower the hardening process of concrete. The cast must not be allowed to freeze during the first 48 hours.

To achieve the best adhesion and flowing properties casting has to be carried out within 5-10 minutes after adding water. The once mixed grout remains suitable for casting for 1 hour.

Incision and moving helps to compact the cast.

It is recommended to protect the casted surfaces against too quick drying. Moisturising helps to ensure uniform hardening of the casted concrete and volume stability.

CONCRETE HARDENING PROGRESS at temperature of +20 °C and added water of 16%.

Concrete compressive strength after 24 hours approximately	≥30 MPa
Concrete compressive strength after 48 hours approximately	≥40 MPa
Concrete compressive strength after 7 days approximately	≥50 MPa
Concrete compressive strength after 14 days approximately	≥55 MPa
Concrete compressive strength after 28 days approximately	≥70 MPa

TECHNICAL SPECIFICATIONS

Fresh density 2200 kg/m³ Dry mix density 1.6 kg/dm³

Average water absorption coefficient C =0.1 kg/(m²·min⁰.5) EVS-EN 1015-18 Tested durability against freeze-thaw:

56 cycles mass loss 0.1 kg/m² EVS 814:2003

Flowing properties mixed with 20% of water 110 mm pursuant to screed material standard EVS-EN 13813:2005 +5 °C to +30 °C Working temperature

STORAGE, WARNINGS

Store bagged mix powder in dry conditions.

Storage time of mix powder is 1 year.

The product contains cement. Contact with water causes alkaline reaction. Can cause skin irritation. Upon contact with eyes rinse immediately with plenty of water.