

STRUCTRO 80N



Rapid hardening cementitious repair mortar

DESCRIPTION

STRUCTRO 80N is a pre-packed single component cementitious repair mortar suitable for repairing and making good internal floors, stairs and steps and for general repairs to cracks and holes

APPLICATIONS

STRUCTRO 80 N can be applied to rigid sound surfaces-sand/cement screed or concrete bases, asphalt, granolithic, terrazzo, ceramic and quarry tiles, epoxy and polyurethane coatings.

ADVANTAGES

- » Fast setting with high early strength development which facilitates quick return to service.
- » Easy to apply, single component, require only addition of water.
- » Exhibits good mechanical properties.
- » Suitable for vertical applications, No cracks or sagging.
- » Durable.
- » Cost effective.

STANDARDS

STRUCTRO 80 N complies with the requirements of BS EN 13813, Class CT-C35-F4

METHOD OF USE

SUBSTRATE PREPARATION

It is not usually necessary to prime absorbent surfaces. However, to ensure satisfactory bonding, the prepared surface should be dampened down to minimise suction. Ensure that the surface is in a saturated surface dry condition prior to application of STRUCTRO 80 N, i.e. no visible surface water.

PRIMING

Absorbent surfaces should be dampened with clean water. Very absorbent surfaces must be primed with dilute Neoprene Primer.

Non absorbent surfaces must be primed with neat Neoprene Primer. The primer should be used in accordance with the instructions printed on the Product Data Sheet and must be allowed to dry before applying the repair mortar.

TYPICAL PROPERTIES W/P RATIO = 0.23:

Fresh wet density:	2.05 ± 0.10 g/cm ³
Working time:	10 - 15 min
Walk on hardness time:	20 - 30 min @ 20°C
Ready for overcoating after:	1½ hr @ 2 mm > 20 MPa @ 1 day
Compressive strength:	30 MPa @ 7 days
BS EN 13892-2	> 35 MPa @ 28 days > 2 MPa @ 1 day
Flexural strength:	> 3 MPa @ 7 days
BS EN 13892-2	> 4 MPa @ 28 days
Consumption per mm thickness:	1.65 kg/m ²
Application thickness:	Unfilled 2 - 20 mm
Filled 20 - 50 mm	

MIXING

To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used. 4.6 – 5.5 litres of clean water should be added to clean container.

The powder is then added slowly to the water while mixing continuously with low speed mixer/drill (400 - 600 rpm). Mixing should be continued for 3 minutes until a uniform smooth, slump-free consistency is obtained.

Only mix enough mortar that can be applied before the product begins to set (approx. 10 – 15 minutes).

STRUCTRO 80 N can be applied up to a thickness of 20 mm.

For increased economy, the mortar can be bulked out by adding up to an equal volume of graded aggregate. Small localised repairs over 20 mm, but not exceeding 50 mm, should be bulked out with an equal weight of graded aggregate.

The working time will be extended at low temperatures and reduced at higher temperatures.

PLACING AND FINISHING

For best results over large areas, apply the mortar with a steel trowel at a thickness of 2 – 3 mm. To produce a smooth repair surface ready to receive floor coverings, finish with a wet smoothing trowel before the mortar has fully set, i.e. 15 - 20 minutes.

To ensure a level surface when filling holes and cracks, trowel the mortar into the area and apply pressure to ensure the mortar covers the repair surface.

Fill the repair leaving the mortar proud of the surrounding area, then float or grind to the required level after approximately 20 minutes. Overcoating can commence after approximately 1½ hours at 20°C @ 2 mm.

CLEANING

All tools should be cleaned immediately after use with fresh clean water. Hardened materials should be cleaned mechanically.

PACKAGING

STRUCTRO 80N is available in 22 kg bags

THICKNESSES AND SIZE LIMITATIONS

STRUCTRO 80N can be applied at thicknesses between 2 - 20 mm. Filled STRUCTRO 80N can be applied at thicknesses between 20 - 50 mm.

YIELD

Approximately 13.2 litre per 22 kg bag.

STORAGE

STRUCTRO 80N has a shelf life of 12 months from the date of manufacture if stored at temperatures between 2°C and 50°C.

If these conditions are exceeded, Starke Technical Department should be contacted for advice.

HEALTH & SAFETY

STRUCTRO 80N contains Portland cement and sand, STRUCTRO 80N may cause irritation to skin or eyes.

In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advice.

For further information refer to the Material Safety Data Sheet.

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