



STRUCO – NO.3

Integral, Quick Setting Compound for Cement and Concrete

DESCRIPTION

A versatile liquid compound for quick setting and rapid hardening of cement and concrete. It functions as a quick setting accelerator, allowing faster dismantling of shutters, thereby increasing the progress of work. Use of STRUCO – NO.3 also imparts waterproofing properties.

USES

STRUCO – NO.3 can be used successfully for faster dismantling of shutters and for early gain of strength. 7 days strength is normally achieved in 3 days and 28 days strength in about 7 days. It is very suitable for big precast yards, fast concreting work in factories, workshops etc., where shutdown time is restricted. STRUCO – NO.3 facilitates concreting in cold weather conditions, eliminating the danger of frost and acts as an anti-freezing agent. STRUCO – NO.3 can be used for sealing joints in masonry or brick walls or cracks in buildings or industries, rocks, tunnels, through which there is water seepage.

ADVANTAGES

- ❖ Extremely suitable for producing hard concrete in short time.
- ❖ Waterproofs concrete.
- ❖ Acts as anti-freezing compound for frost free concrete.
- ❖ Helps faster de-shuttering.
- ❖ Ensure early strength gain
- ❖ Very suitable for plugging leakages from week holes, masonry joints.

APPLICATION

While preparing the mortar, the ratio of STRUCO – NO.3 and water may vary from one part of STRUCO – NO.3 with 4 to 5 parts of water, by volume. Cement used for mixing with STRUCO – NO.3 should be fresh and the same should be tested for compatibility with STRUCO – NO.3. This test can be made by mixing three parts of cement with one part of STRUCO – NO.3 and stirred repeatedly with a clean knife, until the paste is creamy. This plastic mass may now be taken in hand to form a globule and the elasticity and temperature be carefully felt. A good quality cement when mixed with neat STRUCO – NO.3 would be sticky and give off heat as it gradually sets. In fact, good quality cement will allow ample time for mixing and then set quickly.

Once this test for compatibility of cement with STRUCO – NO.3 has been done, the exact dose can also be fixed. However, we do not recommend use of STRUCO – NO.3 in rendering. Here, either STRUCO – NO.1, STRUCO – NO.2 or STRUCO – NO.4 should be used.

For leaking joints, rake out to a depth of about 2 to 3 cm. The sides of joints should be cleaned of all mortar and roughened to provide mechanical key for STRUCO – NO.3 mortar. Here, the composition of this mortar will comprise of STRUCO – NO.3 and neat cement. When this mortar shows signs of stiffening, it should be thrust into the joint with a trowel or by hand, ensuring that the complete gap is filled up. The work should be done in continuous lengths of 20 to 30 cms. according to the severity of the leakage, while keeping weepholes of 25 mm at certain intervals, through which the water which has accumulate after the jointing, is finally allowed to escape. When the whole joint is treated in this manner and the mortar has become absolutely hard, the wheepholes should be plugged with neat cement and STRUCO – NO.3 compound. In case this compound is not enough to hold back and water keeps on oozing through this compound. STRUCO – NO.2 or STRUCO – NO.4 should be used. Whenever the jointing is subjected to rapid change in temperature, the pointing should be covered with STRUCO – NO.1 mortar.

For rapid hardening of concrete using STRUCO – NO.3 the concrete should be composed of well graduated and cleaned constituents and STRUCO – NO.3 should be mixed with gauging water and added to the dry mix at last. Here, the dilution of STRUCO – NO.3 will be one part of STRUCO – NO.3, 2 to 4 parts of gauging water. Care should be taken while mixing the concrete, as mixing of STRUCO – NO.3 will promote rapid stiffening and thus placement of the concrete should be done as quickly as possible, as there will be rapid loss of workability, Otherwise, small quantities of concrete should be produced at a time.

PRODUCT DATA

Form :: Liquid
Specific gravity :: 1.2
Initial set :: 2 to 5 minutes
Final set :: 4 to 6 minutes
Shelf life :: 1 year, if kept in un-opened condition.

PACKAGING

5, 25 and 225 kgs.

TECHNICAL SERVICE :

SWC group maintains a technical division with highly qualified technical personnel to investigate and advise on subjects related to Concrete and the Construction Industry. The Division can advise on the correct use and selection of right products at the right place.

SWC undertakes Consultancy Service for diagnosis and rehabilitation of distressed structures. SWC undertakes Contracts on turnkey basis for total Waterproofing System with guarantee

NOTE : This Technical data sheet is to be used as guidance only. Although the basic formulation of the product remains unchanged, production refinements arising from continuing research and evaluation programmes may occasionally result in marginal change in properties. The recommendation and properties of the product based on continuous monitoring of the product are not intended to infringe on other patents.

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