



Emckrete SCC

High Performance Pre-Packed Self Compacting Concrete

Benefits

- Excellent workability with high flowability of more than 750 mm in J – Ring test
- Low heat property enables large single pour size
- Long working time
- Shrinkage compensated
- No vibration is needed

Uses

- Structural construction and restoration
- Pre-cast modular units
- Flat floors in warehouse
- Pre-cast panel joint infill

Application

General

Emckrete SCC is a special blend of low heat cement with proprietary additives, plasticizer and graded aggregates and as a new structural member of used for large section infill in a structural repair situation.

It retains high flowability to achieve self compaction to over one hour at 32°C for easy placement in difficult situation. No external vibration is required and placement shall be executed in a uni-directional manner to optimize flow and compaction.

Formwork and application

As Emckrete SCC is a high flow material, all formwork must be tightly sealed to prevent loss of cement grout during placement of material.

Free falling of material shall be minimized to less than 1 m and placement shall be uni-directional to optimize self compaction. SCC shall be cast to de-aerate through and external channel or through out the length of the cast section.

No external mechanical vibration shall be used. Where constrictions present due to formwork or rebar, flow may be assisted by manual light tamping or running chain motion.

Curing

Standard good concreting practice shall be followed. Emckrete SCC shall be protected from extreme sun or wind and cured upon final set. For thick section larger than 300 mm, insulation is recommended to minimize temperature differential between edge and core of concrete section.



Technical Data for Emckrete SCC				
Compressive strength N/mm ²	1 day	3 days	7 days	28 days
	25.00	55.0	60.0	65.0
Flowability by J-Ring test at 32°C				
Fresh	800 mm			
One hour	750 mm			
Linear shrinkage, mm/m	7 days	≤ 0.5		
Packaging	25 kg bags or one tonne bulk bag			
Water dosage	2.55 to 2.68 litres / 25 kg bag or 10.2 to 10.7 % by weight			
Disposal	In the interest of our environment please empty all packs completely and dispose of in accordance with statutory regulations			

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees, which differ from the data contained in our information sheets, are only binding if given in written form. The accepted engineering rules must be observed at all times.

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