

I.B.C. I-Grout 700

Product Description

IBC I-Grout 700 is a specially prepared pre-blended, ready to use, high strength shrink-compensated cementitious construction grout. It may be used at a consistency from fluid to plastic for precision grouting of equipment, concrete systems, structural wall membranes, curtain walls, pre-cast wall panels and beams.

IBC I-Grout 700 may be used at thickness between 6 and 100mm.

Cold Weather Working:

Placing of IBC I-Grout 700 should not be attempted at temperatures below 6°C.

Preparation of Substrates:

All substrates should be clean and sound. Remove all surface laitance by scabbling, etching or grinding.

All suitably prepared substrates should be thoroughly wetted 6 – 24 hours before starting to grout and substrate should be in a moist condition during the placing of the grout. Remove any free standing water before placing the grout.

Mixing:

For optimum results a high shear paddle or vane grout mixer should be used.

Add the correct amount of clean potable water (3.8 to 4.7 litres per 25kg of IBC I – Grout 700) for the consistency required to the mixer and then add the complete pack (s) slowly while mixing. Mix for 3- 5minutes until smooth and cohesive. Use immediately.

Pumping:

IBC I – Grout 700 may be placed using automatic mixer pumps.

For large or continuous placement ensure that adequate mixing capacity and sufficient labour is available. A holding tank fitted with an agitation system may be used.

Strength Development:

The strength of the grout is often determining factor in deciding when loads can be put on structural members or machinery. The strength of the grout is dependant on the amount of mixing water, temperature of the object grouted, curing and age of the hardened grout.

Application:

Ensure sufficient material is available to complete the work and obtain a continuous fill. Pour from one side only to avoid air entrainment, keeping a head of grout to promote flow. Rods, straps and chains may be used to aid flow. DO NOT VIBRATE.

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Curing:

Good curing is essential on all exposed surfaces particularly in dry, windy, sunny conditions. Failure to do so will reduce bond, strength and durability.

Methods such as chemical curing, water ponding and mist spray are suitable, but in all cases it is very important correct curing is carried out. Keep the grout above 6°C at all times during application and cure.

Coverage:

At a flowable consistency a 25kg unit of IBC I – Grout 700 will yield approximately 13.5litres of grout. Less workable mixes will give slightly lower yields.

TECHNICAL DATA	
Flexural Strength:	< 10 N/mm ² after 28 days
Compressive Strength:	> 60 N/mm ² after 28 days (Fluid)
Adhesion to subfloor:	> 1,5 N/mm ²
VOC-value:	Free from Ammonia and Formaldehyde
Particle size:	max 2 mm
Free shrinkage:	<0,15 % measured at 55% RH
pH-value:	Approximately 12
Flow ability:	130 - 150 mm
Water stability:	Water stable, (Expansion under water < Free shrinkage)

PROCESSING DATA	
Water admixture:	16 - 19 % (3,8 - 4,7 litre / 25 kg bag)
Flow ring test :	120-150 mm.
Min application	6 mm

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PROCESSING DATA	
Min temperature:	+6oC
Dry powder Density:	approx. 1,7 g / cm ³
Wet density:	> 2,0 g / cm ³
Storage:	6 months in dry conditions.

Packaging:

IBC I – Grout 700 is packed in 25kg units.

Cleaning: All tools and equipment should be cleaned with clean potable water immediately after use.

Protect the Environment:

Please dispose of empty bags or surplus product in accordance with local authority regulations. The product should not be disposed of with household waste. Do not allow material to enter drains or sewage systems.

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Disclaimer:

The general information provided in the present technical description, application guidelines and other recommendations, is based on research and experience. However the client is obliged to determine himself what products are suitable for use. Accordingly, no liability will be accepted by IBC.

For further information contact the IBC Technical Department.



Technical information