

# Flo-Add 20

Expansive and plasticising grout admixture for pre-casted concrete elements



## Description

Flo-Add 20 is a pre-packed powder consisting of selected admixtures and expansive ingredients that when mixed with cement/sand mixture produces a high flow, nonshrink and non-segregate grout for filling the gaps and joints between pre-casted concrete elements.

## Applications

Flo-Add 20 is designed to be mixed with cement/sand mixture to produce a non-shrink grout for the following applications:

- ▲ Filling the gaps and voids between pre-casted concrete elements.
- ▲ Filling cracks, holes and grooves in concrete substrates.
- ▲ Filling of shutter toe rod openings.

## Advantages

- ▲ Will produce a non-shrink grout which is compensated for shrinkage in the plastic stage.
- ▲ Will produce a free flow grout without water bleeding.
- ▲ Reduces the ingress of harmful substances.
- ▲ High bond to pre-casted concrete elements.
- ▲ High initial and ultimate strength.
- ▲ Chloride free.

## Standards

The use of Flo-Add 20 enables the grout mix to comply with ASTM C1107-02 Type A.

## Method of Use

### Proposed Mix

	Flo-Add 20	OPC	Sand	Water	Yield
Quantity	1 kg	50 kg	50 kg	15 ± 1.0	55 ltr

## Joint Surface Preparation

Surfaces must be clean and free from dust, grease, oils and all other contaminants. The width of the joint must be at least 10 mm. If the joint is open from the both side, use a stopper board on one of the sides.

## Technical Properties @ 25°C:

Colour:	Dark beige to brown
Fresh mixed density:	2.1 ± 0.1 g/cm <sup>3</sup>
Compressive strength:	≥ 25 MPa @ 1 day
ASTM C109/109M-02	≥ 50 MPa @ 7 days
	≥ 60 MPa @ 28 days
Pre-hardening volume change:	Up to 2.0%
ASTM C940	
Bleeding:	Nil
ASTM C940	
VOC:	< 5 g/ltr
ASTM D2369	

*Compressive strength specimens should be kept under restraint for the first 24 hours.*

*The above mentioned results depend on the type of OPC and sand gradation that will be used in the mix. It is important to conduct trials so as to choose the best source of OPC and sand for the needed application, consult DCP's technical department for more details.*

Primer is not required because dampening the substrate with clean water is recommended before applying the grout mixture.

## Mixing

To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used. While mixing, 1 kg of Flo-Add 20 should be added to 15 ± 1.0 litre of water, then slowly add the cement and sand and mix continuously for 5 minutes until a uniform consistency is obtained.

## Placing and Finishing:

After mixing, the grout should be pumped into the joints and leveled with a steel trowel. If the joint is opened on the both sides, place a stopper board on one side of the joint.

Remove the stopper board once sufficient amount of time has elapsed depending on the working conditions and use a trowel to finish the joint.

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The grout can be applied using a normal screw pump. Pump the grout carefully into the joints to ensure that the joint is thoroughly filled with the material and obtain a structurally functional joint.

For the application behind reinforcement bars, a piece of steel tube with a pointed tip is attached to the hose to allow the ease of application.

*Important: Do not vibrate the grout in the vertical joints.*

## Curing

Exposed section should be kept to the minimum and cured by using curing compound like Setseal 22 or by using wet hessian sheets covered with polyethylene sheets.

*Notes:*

- ▲ *At low temperatures (below 8°C), warm water is recommended to achieve the early strength. And the stopper board is recommended to be kept longer time.*
- ▲ *At high temperatures (35°C and above), cold water (less than 20°C) must be used for mixing.*

## Cleaning

All tools should be cleaned immediately after finishing by clean water. Hardened materials can be cleaned mechanically.

## Packaging

Flo-Add 20 is available in 1 kg bag.

## Storage

Flo-Add 20 has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 50°C in original unopened bags.

If these conditions are exceeded, contact DCP Technical Department for advice.

## Cautions

### Health and Safety

Flo-Add 20 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 if necessary.

For further information, refer to the Material Safety Data Sheet.

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#### Note:

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