

DESCRIPTION

Base Crete Flow G1 is pre-mixed, high flow and chloride free cementitious grout. It contains cement, selected additives, well graded and non-reactive aggregates which when mixed with water provides a precision non-shrink grout with excellent flow, frost resistance and high compressive strength characteristics.

贝斯克瑞特流动 G1 是一种预拌、高流动性且不含氯的水泥基灌浆料。它含有水泥、精选外加剂、级配良好且无反应的骨料。与水混合后，可形成具有高精度、不收缩、流动性优异、抗冻性强及高抗压强度特性的灌浆料。

APPLICATIONS

Base Crete Flow G1 is ideally designed for use in the following applications:

- ◆ Machine beds.
- ◆ Stanchion bases, struts, railings, and guardrail assemblies.
- ◆ Filling of shutter tie rod openings.
- ◆ Anchoring of tie bars, and bolts.
- ◆ Pile top re-profiling.

ADVANTAGES

- ◆ High flow characteristics, can be poured or pumped into variable gap widths.
- ◆ Excellent flow retention on characteristic.
- ◆ Non-shrink characteristics.
- ◆ High early strength development rate allowing for rapid installations.
- ◆ Easy to apply, single component which requires only addition of water.
- ◆ Chloride free.

Method of Use

Substrate Preparation

- ◆ The Substrate should be sound, clean and free from contamination. Surface Laitance should be removed by acid etching.
- ◆ All surfaces should be soaked with water enough to reach saturated surfaces prior to grouting.
- ◆ A water tight formwork should be erected to avoid any grout loss.

MIXING

To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used.

Technical Properties @ 25°C:

Colour:	Grey
Fresh wet density:	2.3 ± 0.1g/cm ³
Compressive strength: ASTM C109/109M-02	≥ 35 MPa @ 1 day ≥ 60 MPa @ 7 day ≥ 70 MPa @ 7 day
Pre-hardening volume change: ASTM C940	Up to 3.0%
Bleeding: ASTM C940	Nil
Flow characteristics: ASTM C1437 initial: After 3- min (remix): Application temperature: VOC: ASTM D2369	280-290 mm 200-220 mm 5 to 40°C <5g/ltr



Placing and Finishing:

Under Base plate:

Enough material should be available to achieve continuous fill and to complete the work. Pouring of the mixed grout should be started from one side only to avoid air entrapment. To obtain maximum flow distance, a side shutter feed between 100 - 250 mm high should be erected and used to build the required head.

Formwork:

As the mixed grout possesses high fluidity characteristics, all formwork and shutters should be water tight. This can be obtained by sealing underneath the formwork and at the joints by using an appropriate mastic. The unrestrained areas should be kept to a minimum due to the expansive nature of Base Crete Flow G1.

放置与收面:

底板下方:

应准备足够材料以实现连续灌注并完成工作。

混合灌浆料的浇注应仅从一侧开始，以避免空气夹带。为获得最大流动距离，应设置并使用高度为 100 - 250 mm 的侧模板挡板，以形成所需的压头。

模板:

由于混合灌浆料具有高流动性特征，所有模板和挡板都应水密。

可通过在模板下方以及接缝处使用适当的密封胶进行密封来实现这一点。

由于 Base Crete Flow G1 的膨胀性质，无约束区域应尽量减少。

Curing:

Base Crete Flow G1 is a cementitious based material, it should be treated in a manner similar to concrete. Curing can be conducted by either using concrete curing compound such as Setseal 22 or by using wet hessian and polyethylene.

Notes:

- ◆ At low temperatures (below 8°C), warm water is recommended to achieve the early strength. And the formwork 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 should be cleaned mechanically.

Packaging

Base Crete Flow G1 is available in 25 kg packs.

Thickness and Size Limitations:

Base Crete Flow G1 can be applied in a single layer at thickness between 10 - 100 mm. For greater thickness, an 8 - 12 mm washed aggregate should be added at a ratio between 50 - 70% of Base Crete Flow G1.

Storage:

Base Crete Flow G1 has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 50°C.

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

Cautions:**Health and Safety:**

Since it is powder containing Portland cement and sand, Base Crete Flow G1 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.

Fire:

Base Crete Flow G1 is non-flammable.

More from Base Construction Products

A wide range of construction chemical products are manufactured by Base which include:

- ◆ Concrete admixtures.
- ◆ Surface treatments
- ◆ Grouts and anchors.
- ◆ Concrete repair.
- ◆ Flooring systems.
- ◆ Protective coatings.
- ◆ Sealants.
- ◆ Water proofing.
- ◆ Adhesives.
- ◆ Tile adhesives and grouts.
- ◆ Building products.
- ◆ Structural strengthening.
- ◆ Cool Roof Technology Solar chips.

**Note:**

We endeavor to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.