

# **BUILDING CHEMICALS SPECIALISTS**

## **UNIROC GROUT**

### **General Purpose Cementitious Non - Shrink Grout**

#### **USES**

A general-purpose non-shrink pourable grout for gap thickness 10 to 75 mm for machine base plates anchoring, bolt pockets and construction recesses.

#### **PRODUCT DESCRIPTION**

**UNIROC GROUT** is supplied as ready to use dry cementitious powder requiring only the correct amount of prescribed water to produce a flowing non-shrink grout for gap thickness of 10-75 mm. **UNIROC GROUT** is a blend of Portland cements, specially graded fillers that assist uniform mixing and chemical additives that ensure low water demand and high early strengths.

#### **Advantages**

- Non-shrink.
- High early strength.
- Can be used at flowable or trowellable consistency.
- Chloride-free.
- Non-staining.

#### **PROPERTIES**

At **flowable** consistency (**3.4 – 4.5 litres of water per 25-kg bag** of **UNIROC GROUT** at 20 °C) the following results were obtained:

**Compressive strength:** 18 N/mm<sup>2</sup> @ 24 hrs  
40 N/mm<sup>2</sup> @ 7 days  
58 N/mm<sup>2</sup> @ 28 days

**Flexural strength:** 2.5 N/mm<sup>2</sup> @ 24 hrs  
7.5 N/mm<sup>2</sup> @ 7 days  
9.5 N/mm<sup>2</sup> @ 28 days

**Density:** 2080 kg/m<sup>3</sup>

## APPLICATION

### Preparation

The substrate surface must be free of oil, grease or any loosely held material. Pre-soaking is necessary for a minimum of 2 hours prior to grouting. Any free water should be removed before grouting begins. The base plate should be clean of oil, grease or scale. Formwork should be constructed to be leak proof, achieved by using PS sealant or foam rubber strip between the joints.

### Mixing

For best results a mechanical powdered grout mixer should be used for quantities up to 50 Kg. For larger quantities use a high shear vane mixer. It is advised that the grouting operation is carried out in a continuous fashion. The water needed should be accurately measured and placed first into the mixer. The grout is then added slowly and mixed continuously for 5 minutes so as to ensure a smooth and even consistency.

To achieve the correct consistency, the amount of clean water that is added to a **25-Kg bag** at 20 °C is:

**Flowable:                    4.0 - 4.5 litres.**

**Trowellable:                3.4 - 3.6 litres.**

When ambient temperatures exceed 35-oC cool water (below 20 °C) should be used for mixing the grout.

### Placement

Place the grout as soon as the mixing is finished but not later than 20 minutes, to gain the full benefit of expansion process.

**UNIROC GROUT** may be placed in thickness up to 75 mm in a single pour when used as an under plate grout. Any bolt pockets must be grouted prior to grouting between the substrate and the base plate. Continuous grout flow is essential. Pouring should be from one side of the void to eliminate the entrapment of air.

### Curing

On completion of the grouting operation, exposed areas should be thoroughly cured with a curing membrane or continuous application of water or by using a wet hessian.

## PACKING AND ESTIMATING

**UNIROC GROUT** is supplied in **25-kg bags**. The approximate **yield per 25-kg bag is 13 litres** for **flowable** consistency and **12 litres** for **trowellable** consistency.

## STORAGE

**UNIROC GROUT** has a shelf life of 12 months when kept in a dry store in sealed bags.

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