

## Protective and Support Coating

### Uses

Capcem KT Ultrafast provides a protective grey coating to rock, coal, or concrete surfaces which are susceptible to deterioration on exposure. A fast rate of strength development allows rapid development of support.

### Advantages

- Based on conventional cement and water polymer, solvent-free.
- Rapid strength development, within 1 hours after spraying.
- Non-toxic and non-flammable.

### Description

Capcem KT Ultrafast is supplied as a separate cement and polymer components. The product is spray applied and cures rapidly to a grey colour with good adhesion characteristics to a variety of substrates.

### Application Instructions

Use a suitable mixer and pump / spraying unit, capacity about 60 litres. Empty the contents of two of the liquid polymer bottles into the mixer and start mixing. Empty two bags of the cement component gradually into the mixer and then continue mixing until a smooth homogenous mix is achieved, about two minutes.

Stop the mixer and start spraying.

### Preparation

All surfaces to be covered must be washed with water, preferably dry, and free of dust and loose material before application.

### Properties (all components at 25°C)

**Pump Life : 30 minutes**

**Setting Time : 45 minutes**

**Fresh Wet Density 1790 kg/m<sup>3</sup>**

## Strength Development (25°), Typical

AGE	COMPRESSIVE STRENGTH (MPa)
<b>2 hours</b>	<b>5.1</b>
<b>4 hours</b>	<b>7.2</b>
<b>24 hours</b>	<b>12.2</b>
<b>7 days</b>	<b>18.8</b>
<b>28 days</b>	<b>28.7</b>

**Tensile Strength (28 day) : 2.5MPa**

**Tensile Adhesive (28 day) : 2.2MPa**

### Mixing and Estimating

Mixing requires the addition of 5.0 litres of clean water per 21kg bag Capcem KT Ultrafast.

A suitable pump/spray apparatus can be used for a compacted rapid coverage. Application by trowel ensures a smooth finish. Do not apply in running water conditions or when temperature is below 5°C.

Pack Size (kg)	Mix Water (litres)	Yield (litres)
21	5	14.5

### Curing

In common with all cementitious materials, Capcem KT Ultrafast must be cured, preferably at high humidity.

### Cleaning

Equipment can be cleaned with water immediately after use. Cured material can be removed only by mechanical means.

### Coverage guide to Capcem KT Ultrafast quantities

14.5 Litres yields 3.6m<sup>2</sup> at 4mm thick

**Note:** These figures are for guidance only. Actual coverage will depend on the texture and porosity of the surface being covered.

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### **Storage/Shelf Life**

Capcem KT Ultrafast has a shelf life of 12 months when stored in cool, dry conditions. To prevent degradation of packaging, store away from direct sunlight.

### **Precautions**

### **Health and Safety**

Capcem KT Ultrafast is non-toxic but is mildly alkaline. Goggles, gloves and dust masks should be worn during application. Splashes on skin or eyes should be removed with clean water. In case of splashes in the eyes, seek medical advice immediately; refer to the Material Safety Data Sheet for further information.

### **Technical Support**

Minova RSA provides a technical advisory service supported by a team of specialists in the field. The service includes on site assistance and advice on evaluation trials and laboratory work.

### **Additional information**

Minova RSA is a market leader specialising in the supply of high performance chemical products for the mining and tunnelling industries.

Minova RSA range of mining products includes anchoring and backfill systems, bagged cement products, high yield grouts, mine sealants, equipment and accessories, for which a product brochure is available on request.

### **Important note**

Minova RSA products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Minova RSA endeavours to ensure that any advice, recommendation, specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.

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