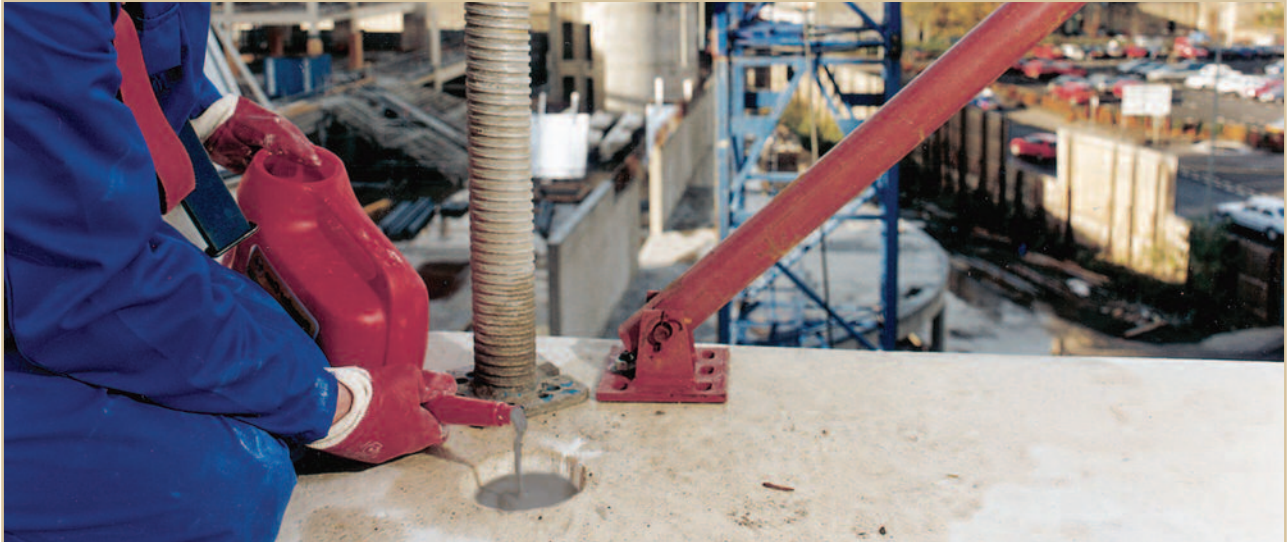


# Easiflow™ CS Grout

**Rapid setting polyester, high strength grout**



**“maintenance made easy”**



## PRODUCT DESCRIPTION

**Easiflow CS Grout is a Portland cement based product giving high strength, good flow and non-shrink properties. Placed grout gives structural support and good vibration resistance.**

**Easiflow CS Grout is chloride free and can be safely used in contact with steel. The specialised mix design enables placement at low water content leading to good freeze-thaw stability, low water absorption plus resistance to oil, sea water and mild alkali attack.**

**Placement thickness may be in the nominal range of 10mm to 100mm. For thicker sections 6mm Aggregate should be added at a rate of up to one to one Aggregate to Easiflow CS Grout.**

## TYPICAL USES

Crane rail tracks, stanchion bases, machine bed plates, dowel bars between pre-cast units, cable ducts, ground anchors.

## SUITABLE SUBSTRATES

Easiflow CS Grout is suitable for masonry, concrete, brickwork, stonework and rock.

## COLOUR

Easiflow CS Grout is grey in colour.

## PACKAGING

Easiflow CS Grout is pre-packed in 25kg units.

## POT LIFE (ONCE MIXED)

18 -22 minutes

## PHYSICAL PROPERTIES @ 20°C

### COMPRESSIVE STRENGTHS

Water addition 4.5 litres per 25kg of Easiflow CS Grout.

	Min	Max
1 Day	25N/mm <sup>2</sup>	35N/mm <sup>2</sup>
3 Days	40N/mm <sup>2</sup>	56N/mm <sup>2</sup>
7 Days	56N/mm <sup>2</sup>	65N/mm <sup>2</sup>
28 Days	65N/mm <sup>2</sup>	70N/mm <sup>2</sup>
90 Days	70N/mm <sup>2</sup>	75N/mm <sup>2</sup>

### VARIATION IN WATER CONTENT

Mix water variation for particular applications will alter grout consistency and compressive strength as follows.

Water Addition	4.8 Lts	4.3 Lts	3.6 Lts
Consistency	Liquid	Plastic	Mortar
1 Days	25N/mm <sup>2</sup>	41N/mm <sup>2</sup>	50N/mm <sup>2</sup>
3 Days	47N/mm <sup>2</sup>	60N/mm <sup>2</sup>	66N/mm <sup>2</sup>
7 Days	51N/mm <sup>2</sup>	69N/mm <sup>2</sup>	72N/mm <sup>2</sup>
28 Days	56N/mm <sup>2</sup>	72N/mm <sup>2</sup>	75N/mm <sup>2</sup>

**PHYSICAL PROPERTIES****MECHANICAL PROPERTIES**

Flexural Strength	10N/mm <sup>2</sup> @ 28 Days
Density	2100 kg/m <sup>3</sup>
Coefficient of Thermal Expansion	11x10 <sup>-6</sup> /°C
Compressive Modulus	30kN/mm <sup>2</sup>
Initial Set	260 minutes
Final Set	290 minutes

**SPECIFICATION OUTLINE**

Grouting shall be carried out using *Easiflow CS Grout*. The product must be stored, handled and placed in accordance with the manufacturer's instructions.

**STANDARDS**

*Easiflow CS Grout* has been tested in accordance with the appropriate parts of the following standards: EN 12390, BS 476, ASTM C953, ASTM C1107.

*Easiflow CS Grout* complies with the requirements of Corps of Engineers Specification for Non Shrink Grout CRD C621 and for Highways clause 2601.

*Easiflow CS Grout* complies with BS 6920 for water regulation WRAS (report no M103248).

**DIRECTIONS FOR USE****PREPARATION:**

Formwork should be erected and made grout-tight. The formwork must be designed with sufficient hydrostatic head to ensure grout flow into and across the grouting area. Saturate the grouting area with water. Leave for 1 hour and then blow out any surplus water.

**SHELF LIFE & STORAGE:**

Polycote *Easiflow CS Grout* has a shelf life of up to 12 months in unopened bags when kept in dry conditions at a temperature between 5°C and 45°C.

Storage at higher temperatures or high humidity may reduce the shelf life.

**CLEANING:**

Equipment should be cleaned with Solvent prior to grout hardening.

**MIXING:**

Pour 4.5 litres of clean water into the mixing vessel for each complete bag of *Easiflow CS Grout* to be used. Slowly add the powder to the water whilst continually mixing.

Mechanical mixing should be carried out using either a high torque slow speed drill with a Grout Stirrer or a grout mixer set on slow speed. (High speed or colloidal mixing will cause thixotropy leading to loss of flow.)

**CURING:**

Placed grout, which is exposed, should be cured in accordance with good concrete practice including water spray and spray applied curing membrane.

**FIRE:**

*Easiflow CS Grout* is non-flammable.

**YIELD:**

Each 25kg bag of *Easiflow CS Grout* will yield approximately 13.25 litres of mixed grout.

Each 25kg bag of *Easiflow CS Grout* plus 25kg of 6mm aggregate will yield approximately 22 litres of mixed material.

**TEMPERATURE IN USE:**

*Easiflow CS Grout* may be placed at temperatures between 5°C and 45°C. For placing at temperatures outside this range please contact the Polycote Technical Department.

**SAFETY FACTORS:**

*Easiflow CS Grout* is alkaline when mixed with water and should not come into contact with skin or eyes. Avoid inhalation of dust during mixing and wear safety glasses, dust mask and gloves. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice. For full health and safety data refer to the Materials Safety Data Sheet.

**HEALTH & SAFETY**

**Before using this product, please ensure you have received and read carefully both the Hazard Label applied to the container and the relevant Material Safety Data Sheets.**

**ANY QUESTIONS?**

Please do not hesitate to contact us for advice regarding the use of this product or its suitability for your particular application.

Our aim is to provide all the technical help you need to make an informed choice and achieve total success.

Polycote Technical Helpline

**01234 846400**

All reasonable care has been taken in supplying the above information. However, any figures quoted do not constitute a specification but represent typical values obtained. It is the customer's responsibility to ensure for himself that the product is fit for the intended purpose and that conditions are suitable. Any technical advice is offered in good faith, but without warranty. This is also applicable when proprietary rights and third parties are involved. In the light of the Company's policy of continual research and development, it is the customer's responsibility to ensure that the information contained herein has not been superseded.

**REV: 06/17**