

Easiflow™ VP Grout

Rapid setting polyester, high strength grout



“maintenance made easy”



PRODUCT DESCRIPTION

Easiflow VP Grout, is used for the fixing of steel bolts and bars into pre-drilled holes within concrete, rock, brickwork, stonework, masonry or other substrates capable of supporting the required load.

Formed anchors are high strength fixings which are resistant to corrosion and may be loaded quickly after installation.

Placed anchors are resistant to vibration, do not exert expansive forces and may be used for under water installation.

Easiflow VP Grout consists of a low viscosity polyester resin plus a catalysed filler.

The two components are mixed to produce a filled resin grout, which may be poured or pumped into suitably prepared anchor holes.

TYPICAL USES

Base plates, rail tracks, starter bars and dowels, safety fences and balustrades. Reciprocating machinery, high impact loads.

SUITABLE SUBSTRATES

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

COLOUR

Easiflow VP Grout is dark grey in colour.

PACKAGING

Easiflow VP Grout is pre-packed in 4.35kg units.

POT LIFE (ONCE MIXED)

STD – 18 - 22 minutes
XFH – 8 - 12 minutes

PHYSICAL PROPERTIES – 20°C

ANCHOR STRENGTHS

Length of Anchor Bond (mm)	Uniaxial Pull Out Load (tonnes)
100	3
200	8
400	16
600	24

Deformed bar to BS 4449 in unreinforced 20N/mm concrete, holes drilled by rotary percussive method on air flush.

THE CONTROLLING OF UNIAXIAL PULL OUT LOAD:

Type and strength of base material.
Length of resin anchor bond Hole.
Forming or drilling method.
Type of fixing, bolt or bar.

PHYSICAL PROPERTIES

COMPRESSIVE STRENGTHS

Age at Test	2 hours	1 Day	7 Days
Compres. Strength (N/mm ²)	40	80	95

Tensile Strength 17N/mm² @ 7 Days

Compressive Modulus 16kN/mm² @ 7 Days

Density 1800kg/m³

GROUT VOLUMES REQUIRED

The following table gives typical Polycote *Easiflow VP Grout* volumes required for given bolt/bar and hole diameters.

The volumes given are in cm³ per 100mm of bond length.

Hole Dia (mm)	Bolt Dia (mm)	Bolt Dia (mm)	Bolt Dia (mm)	Bolt Dia (mm)	Bolt Dia (mm)
	12	16	20	25	32
16	10				
20	20	12			
25		35	25		
32			50	30	
40				75	50
48					100

DIRECTIONS FOR USE

ANCHOR INSTALLATION

Holes and Bar Types – Holes should be drilled using rotary percussive drills with air or water flush. The drill bit should be of the integral type with an elliptical head. Holes which are diamond cored should be drilled with a rotary percussive non-flushing drill bit should be cleaned using a steel rotary brush. Loosened dust should be blown out of the hole using compressed air through an extension tube reaching to the bottom of

the hole. Cast holes should taper so that the hole diameter is smaller at the mouth than the bottom.

Steel bars used for anchoring should be deformed such as those manufactured to BS 4449. Threaded bars may be used. When using smooth bars an extra safety factor should be incorporated into the anchor design.

SHELF LIFE & STORAGE:

Polycote *Easiflow VP Grout* has a shelf life of 6 months when kept in dry conditions at a temperature of 5°C to 25°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:

Place *Easiflow VP Grout* into plastic container or bucket.

Slowly add Part A to part B whilst mixing. Continue mixing until a uniform colour is achieved.

Grout and Bar Placing – Place contents of resin can into plastic container or pail. Slowly add catalysed filler whilst mixing. Continue mixing until a uniform colour is achieved. Correct mix proportioning must be used to achieve the designed anchor strength. Pour mixed grout into prepared holes, rodding if necessary to ensure grout flows to the bottom of the hole. Once grout has been placed insert bar into hole and gently twist and press home to the required depth. The bar should be left undisturbed until the grout has hardened.

Equipment should be cleaned with Solvent prior to grout hardening.

Pour mixed grout into prepared holes, rodding if necessary to ensure grout flows to the bottom of the hole.

Once grout has been placed insert bar into hole and gently twist and press home to the required depth.

The bar should be left undisturbed until the grout has hardened.

For underwater installation, please phone Polycote's Technical Service Department.

TEMPERATURE IN USE:

Use STD grade for temperatures of 8°C to 25°C.

Use XFH for 3°C to -12°C.

SAFETY FACTORS:

Non critical applications : 1.5 minimum
Critical applications : 2.0 minimum
Compliance with relevant codes of practice and standards.

HEALTH & SAFETY

Before using this product, please ensure you have received & read carefully both the Hazard Label applied to the container & 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.

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