



EPIREZ®

TECHNICAL DATA

Class A Superstrength Grout

Construction Grade Non-Shrink Grout

Description

Class A Superstrength Grout is a higher strength premixed cement based, non-ferrous, non-shrink grout, exhibiting good flow characteristics. This extra performance grout offers the advantage of low water requirements and high compressive strengths.

Class A Superstrength Grout should be specified for construction site applications demanding higher performance.

Class A Superstrength Grout is supplied ready-to-use as a dry powdered product requiring only the addition of water to be used for a wide range of applications.

Areas of Application

- Column base plates
- Anchoring fixings
- Bolt holes
- Tilt up panels and other joints
- Underpinning

Features

- High strength increase of up to 34% from **Class A General Purpose Grout**
- Non - shrink
- Good flow good base plate contact
- High early strength 50 MPa in one day (Dry Pack)
- Super strength up to 91 MPa in 28 days (Dry pack)
- Low water cement ratio high density / super strength
- Chloride free no re-bar corrosion
- Non-ferrous non staining
- Versatile dry pack / trowel / pour

The information contained in this Technical Bulletin is as up to date and correct as possible as at the time of issue. The data provided should be used as a guide only as the performance of the product will vary depending on differing operating conditions and application methods.

The sale of any product described in this Technical Bulletin will be in accordance with ITW Polymers & Fluids Conditions Of Sale, a copy of which is available on request. To the extent permitted by law, ITW Polymers & Fluids excludes all other warranties in relation to this product.

General Properties

Shelf Life	: 12 months, unopened, dry
Work Time	: 20 minutes at 25°C
Initial Set	: 1 hour at 25°C (Flowable)
Final Set	: 3 hours at 25°C (Flowable)

Water Ratio

Dry pack	: 2.0 Ltr / 20 kg
Trowellable	: 3.0 Ltr / 20 kg
Flowable	: 4.0 Ltr / 20 kg

Typical Performance

Compressive Strength (AS 1478.2 – 2005)	2.0 Ltr Water/20 kg	3.0 Ltr Water/20 kg	4.0 Ltr Water/20 kg
1 day	50 MPa	34 MPa	17 MPa
7 days	82 MPa	62 MPa	36 MPa
28 days	91 MPa	70 MPa	45 MPa

Estimating Data

Consistency	Water / 20 kg bag	Litres of grout/bag	No. of bags/ m ³
Dry pack	1.8 – 2.2 litres	10.2	98
Trowellable	2.8 – 3.2 litres	10.6	94
Flowable/Pourable	4 litres	11.6	86

Application directions

Foundation Preparation

All surfaces should be free from oil, grease or loose material. If the concrete surface is loose, defective or has laitance, it should be cleaned to a sound base. Bolt holes or fixing pockets should be blown clean of any dirt or debris.

Several hours prior to grouting, the prepared foundation should be flooded for pre-soaking with fresh water. Immediately prior to grouting, any standing water should be removed. Inspect pockets and bolt holes for water removal.

Preformed polystyrene blockouts should be mechanically removed. Dissolving polystyrene with petrol or solvent will result in a contaminated blockout with little or no bond to the grout.

Surface preparation guidelines cannot cover all site or field contingencies and it is always recommended that an on-the-spot adhesion test be performed as part of the Standard Quality Assurance audit for the project.

Mixing

Class A Superstrength Grout should be thoroughly mixed to the desired consistency by varying the amount of water used. Do not exceed recommendations.

Grout should be mixed using either a grout mixer or a suitable power mixer. Do not mix more than 5 minutes (do not remix). Once mixing and placing the grout has begun, it should be a continuous operation. Do not mix more grout than can be placed within 20 minutes.

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Curing

Class A Superstrength Grout should be cured for a minimum of 24 hours with wet hessian followed by application of a concrete curing compound. Failure to prevent early moisture loss and ensure long term curing can result in plastic cracking, drying shrinkage, cracks in grout shoulders and a reduction in ultimate strength development. In-service operation may commence once required grout strength has been reached.

Cleaning

Clean tools and equipment with water immediately after use.

Limitations

Class A Superstrength Grout should not be used at temperatures below 5⁰C

Storage and Shelf life

When stored in original sealed containers under dry conditions shelf life 12 months.

Packaging

Class A Superstrength Grout is available in 20 kg moisture resistant, multi ply bags.

Ordering Information:

20 kg bags, 50 per pallet #E991627

TDG Code: Not Classified.

Note

The figures quoted for work time, setting time and strengths are not definitive. They are dependent on job site conditions and will vary accordingly. In all cases we endeavour to provide typical figures for use as a guide.

Health & Safety Information

The product is hazardous. A Material Safety Data Sheet is available from the ITW Polymers & Fluids Technical Department upon request or available on our website www.epirez.com.au.

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