



# TECHNICAL DATA

## Class A General Purpose Grout

### *Panel Grout*

#### Description

**Class A General Purpose Grout** is a premixed cement based, non-ferrous, non-shrink grout, exhibiting good flow characteristics. This economical performance grout offers the advantage of low water requirements and medium to high compressive strengths.

**Class A General Purpose Grout** should be specified for general purpose construction site applications where the major emphasis is on ease of application. **Class A General Purpose 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

- General purpose site applications – fool proof results
- Void filling of cavity blocks
- Void filling of tilt up panels and other joints
- Column baseplate void filling

#### Features

- Good flow
- Positive expansion
- Early strength
- Medium to high strength
- Low water cement ratio
- Chloride free
- Non-ferrous
- Versatile
- Economical
- good baseplate contact
- no shrinkage
- 20 MPa in one day
- up to 70 MPa
- medium to high strength / high density
- no re-bar corrosion
- no staining
- dry pack / trowel / pour
- low installation cost

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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 | : 2.8 Ltr / 20 kg |
| Flowable    | : 3.8 Ltr / 20 kg |

| Compressive Strength<br>(AS 2073) | 2.0 Ltr Water / 20 kg | 2.8 Ltr Water / 20 kg | 3.8 Ltr Water / 20 kg |
|-----------------------------------|-----------------------|-----------------------|-----------------------|
| 1 day                             | 29 MPa                | 20 MPa                | 15 MPa                |
| 7 days                            | 50 MPa                | 37 MPa                | 28 MPa                |
| 28 days                           | 70 MPa                | 52 MPa                | 40 MPa                |

## Estimating data

| CONSISTENCY         | WATER RATIO        | YIELD              |                       |
|---------------------|--------------------|--------------------|-----------------------|
|                     | Litres / 20 kg bag | Litres / 20 kg bag | Bags / m <sup>3</sup> |
| Dry Pack            | 2.0 – 2.1          | 10.2               | 98                    |
| Trowellable         | 2.8 – 3.0          | 10.4               | 96                    |
| Flowable / Pourable | 3.8 – 4.0 max      | 11.2               | 89                    |

## 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 General Purpose 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 for 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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#### AUSTRALIA

ITW Polymers & Fluids  
100 Hassall Street  
Wetherill Park NSW 2164  
Phone (02) 9757 8800 Fax (02) 9757 3855

#### NEW ZEALAND

ITW Polymers & Fluids  
18-26 Amelia Earhart Avenue  
Airport Oaks, Mangere, Auckland  
Phone (09) 256 2122 Fax (09) 256 2124

## Curing

**Class A General Purpose 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 General Purpose Grout** should not be applied below 5<sup>0</sup>C

## Storage and shelf life

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

## Packaging

**Class A General Purpose Grout** is available in 20 kg moisture resistant, multi ply bags.

## Ordering Information:

20 kg bag #991619

## Safety precautions

**Class A General Purpose Grout** is non-toxic, but is alkaline in nature. Gloves should be worn. Splashes of grout to the skin or eyes should be washed off with clean water. In the event of prolonged irritation, seek medical advice. Keep contents away from children.

**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](http://www.epirez.com.au) .

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