Nufins
A division of Universal Sealants (UK) Limited

EPICON GROUT R.T.

Epoxide Grout for larger volumes

Description

A free flowing pourable grout based on a solvent free epoxide system containing a rounded 8mm maximum size aggregate. Designed for gaps in excess of 25mm and particularly suitable where high mechanical properties, low exotherm and cost considerations are of importance.
For thinner applications and greater flow requirements, see Epicon Grout 'S','M' or 'L'.

Applications

- Grouting in machinery, turbines, centrifuges etc.
- Heavy duty fixing of large elements.
- Grouting beneath heavy crane and transporter rails.
- Production of high strength bearing plinths.

Advantages

- Solvent free non-shrink system requiring no primer.
- High compressive, tensile and flexural strengths.
- Rapid strength gain resulting in high bond strength.
- Excellent under severe operating conditions.

Technical Information

Typical results of compressive strength development given in N/mm². Cubes were tested in accordance with BS6319 Part 2.

Typical Results of Epicon Grout R.T.

Temp	4 hr	6 hr	18 hr	24 hr	48 hr	3 day	7 day	28 day
20°C	8	22	63	69	79	83	90	95
5°C	--	--	26	39	65	73	84	90

Tensile Strength = 19 N/mm²
Flexural Strength = 41 N/mm²

Yields And Pot Life Of Epicon Grout R.T.

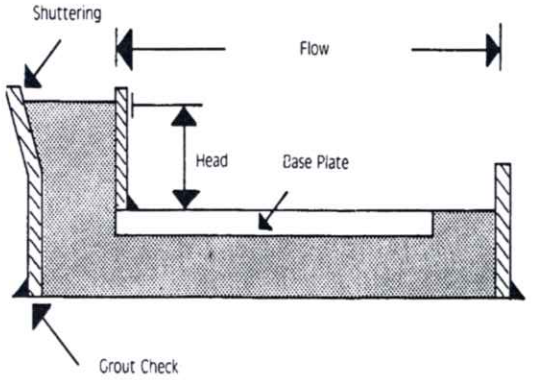
Grout	Yield	Pot Life (minutes)		
Type	cc/kg	20°C	10°C	5°C
R.T.	453	47	94	140

The time for which the mixed grout remains fluid will vary with temperature, as shown in the table above. However the pot life will also be directly influenced by the exotherm generated, which is a function of the volume.

Flow Characteristics

The maximum distance of flow is governed by the gap thickness, the head of grout applied and the temperature at the time of pouring. The following table gives typical data for flow design.

Temp °C	Gap Width (mm)	Hydrostatic Head (mm)	Max. Flow (mm)
20	80	250	750



Surface Preparation

All surfaces should be free from oil, grease, chemical contamination and all loose material. Oil and grease can be removed using Desolve. Concrete should be scarified or etched using Chemclean Acidic Cleaner to remove any laitance. Steel surfaces should be grit blasted to remove all rust and scale. All surfaces should be free from standing water.

It will be necessary to use shuttering and construct a simple hopper system to give the grout a 'head' of material enabling it to flow into the void - see diagram. We would also recommend the use of a suitable release agent on the shuttering such as a silicone spray or wax polish to ease stripping once grouting has been completed.

Mixing

The entire contents of the Epicon Grout Hardener should be thoroughly mixed with entire contents of the Epicon Grout Base. This can be carried out in the plastic bucket supplied or in the base resin tin. The aggregate is then added to the mixed resin and thoroughly mixed until an even consistency is obtained.

It is recommended that a forced action mechanical mixer such as a Creteangle or Daines is used. Alternatively a slow speed drill (R.P.M. approx. 500) fitted with a suitable paddle may be utilised taking care not to entrain air in the mix.

Application Instructions

When grouting into the void, the grout should be passed from one side only via the feed hopper. It is important that this is a continuous feed so if more than one mix is required this must be carefully planned to regularise the feeding of the hopper.

All equipment should be cleaned immediately after use with Nuwash.

Packaging

Epicon Grout R.T. is available in 32 kg units (14.5 litres).

Storage

Epicon Grouts should be stored at room temperature. If stored in cold conditions the components should be warmed prior to use as this will greatly aid mixing and pouring. Epicon Grout should be stored away from foodstuffs and out of the reach of children.

Health & Safety

Epicon Grout, like similar products, is capable of irritating unprotected sensitive skin. We therefore recommend the use of a suitable barrier cream and the wearing of gloves and goggles.

Limitations

If grouting below 5°C contact the manufacturer's technical department.

Technical Support

Through our technical department and laboratories we can offer a comprehensive service to specifiers and contractors.

Technical representatives are available throughout the UK to provide further information and arrange demonstrations.

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