



# TECHNICAL DATA

## Control Joint & Flexible Non-Sag Sealants

### *D5-070 / D5-070 NS*

#### Description

**Control Joint Sealant (D5-070)** is specifically designed for sealing construction and control joints in concrete.

The product is designed to absorb the shock of mechanical stress and traffic and will withstand up to 10% total joint movement. When applied to most clean joint surfaces, no primer is required.

**Control Joint Sealant (D5-070)** is self-levelling and will flow smoothly into grooves without tooling.

**Flexible Non-Sag Epoxy Sealant (D5-070 NS)**, a Non-Sag version of **Control Joint Sealant (D5-070)**, is available for sealing dissimilar materials (eg. coving against sandwich panels) floor and wall control joints in inclined concrete structures.

#### Areas of Application

- Warehouse floors
- Plaza promenade decks
- Ramps/driveways
- Parking structures
- Factory floors
- Grain and sugar terminals

#### Features

- Good chemical resistance
- Food safe
- Proven usage
- Excellent adhesion
- Two grades available
- Good shelf life

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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	: 2 Years
Appearance of Hardener	: Thin liquid
Appearance of Compound	: Amber liquid
Mixing Proportions by Volume	: 1 Hardener to 3 Compound
Initial Mixed Viscosity	: 10 Pa.s
Work Time	: 30 minutes
Full Cure	: 24 hours at 25°C
Hardness (Shore A)	: 80 to 90
Tensile Strength	: 15 MPa
Tensile Elongation at Break	: 50%
Joint Movement Capability	: ± 5%
Chemical Resistance	: Resists dilute acids & alkalis
Petrol & Oil Resistance	: Resists short-term spills & splashes

**Note: Flexible Non-Sag Epoxy Sealant (D5-070 NS)** has similar General Properties to **Control Joint Sealant (D5-070)** but is supplied in thixotropic paste form and has a different Mix ratio; 1 Hardener to 6 Compound by weight.

### Estimating Data:

Control Joint Sealant (D5-070) 4 Litre = 10m (joint 20mm X 20mm)  
 Flexible Non-Sag Epoxy Sealant (D5-070 NS) 4 Litre = 10m (joint 20mm X 20mm)

## Application directions

### Surface Preparation

All surfaces should be clean, sound and concrete should be at least 28 days old. Remove weak and damaged concrete. Repair if necessary with **Epirez®** Concrete Repair Products.

**Control Joint Sealant (D5-070)** and **Flexible Non-Sag Epoxy Sealant (D5-070 NS)** will bond to clean concrete, masonry and metal surfaces. Use closed cell polyurethane backing rod or silicone release tape to ensure correct depth.

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.

### Joint Design

Joint Width (mm)	Sealant Depth / Width Ratio
5 to 15	1.0:1
16 to 20	0.9:1
Over 20	20mm maximum

### Priming

Priming is not normally required. However, critical applications such as frequently wet conditions or polished/dense surfaces should be primed with **Epirez® Epoxy Primer/Sealer (123)**.

### Mixing

Measure sufficient Hardener and Compound to be used in 30 minutes or use complete packs. Mix thoroughly using a stirrer fitted into a low speed power mixer. Ensure that all the material on the sides, under the lip of the container and on the stirrer is incorporated. Take care to avoid air entrapment into the mix.

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## Cleaning

Clean tools and equipment before hardening commences using **Epirez® Clean Up Solvent**. Do not use for cleaning hands or mixing with product.

## Limitations

**Control Joint Sealant (D5-070) & Flexible Non-Sag Epoxy Sealant (D5-070 NS)** should not be applied at temperatures below 10°C.

## Storage and Shelf Life

Store in dry conditions between 10°C and 30°C, away from sources of heat and naked flames. Protect from frost. When stored in original containers the minimum shelf life is 2 years.

## Packaging

**Control Joint Sealant (D5-070)** and **Flexible Non-Sag Epoxy Sealant (D5-070 NS)** are available in 4 litre packs. Each pack contains Hardener and Compound in correct proportions for use.

## Ordering Information:

<b>Control Joint Sealant (D5-070) 4 Ltr</b>	#E115070
<b>Flexible Non-Sag Epoxy Sealant (D5-070 NS) 4 Ltr</b>	#E115082

## Note

The figures quoted for work time and curing time 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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