

## Emer-Seal PU50

**Tough, pick and abrasion resistant, one-component polyurethane sealant / adhesive for civil and industrial applications**

### USES

For bonding or sealing joints between most construction materials, where a high bond strength is required.

- Trafficable floor joints
- Assembly of metal framed buildings
- Cover plates and coverings
- Bolted lap joints
- Prisons, gaols, grand stands

### ADVANTAGES

- Suitable for use as a sealant or adhesive
- Ideal for wide floor joints
- Pick resistant - suitable for high security establishments and public buildings
- Tough and abrasion resistant
- Excellent primerless adhesion
- Fast curing
- Weather resistant

Note: may cause staining of acrylic paints. Test the compatibility of the paint before application.

### DESCRIPTION

Emer-Seal PU50 is a medium modulus elastomeric joint sealant/adhesive based on polyurethane technology. Emer-Seal PU50 uses a neutral cure system reacting on exposure to atmospheric moisture. When cured it forms a waterproof and durable seal, which makes it ideal for exterior applications.

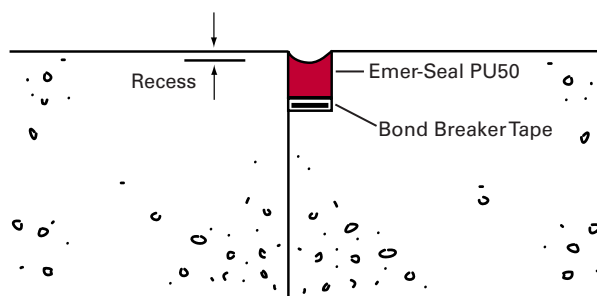
### TECHNICAL SUPPORT

Parchem offer a comprehensive range of high performance, high quality construction products. Parchem also offer a technical support package to specifiers and contractors which includes on-site, technical advice from staff experienced in the construction industry.

### DESIGN CRITERIA

Emer-Seal PU50 may be applied in joints between 5 mm and 50 mm wide. All moving joints should be designed to an optimum width to depth ratio of 2:1, with a minimum joint size of 5 mm wide by 8 mm deep for porous surfaces or 5 mm wide by 5 mm deep for non-porous surfaces.

### TYPICAL CONSTRUCTION JOINT



### PROPERTIES

Data quoted are typical for this product but do not constitute a specification.

**Form:** Smooth, non-slump paste

**Movement accommodation factor:**

+/- 25% (total 50%)

**Skinning time:** 40 mins at 23°C, 50% RH

**Cure speed:** 24 hours to 3 mm

**Typical hardness**

**Shore 'A' (ISO 868):** 50

**100% Modulus**

**(ISO 8339):** 0.40 MPa

**Elongation at break:** >300%

**Chemical resistance to occasional spillage:** Good resistance to dilute acids and alkalis

**Continuous service**

**temperature range:** - 30°C to + 80

## MAINTENANCE

There are no special requirements, however, any damage found during routine inspections should be cut out and replaced.

## SPECIFICATION CLAUSES

Where so indicated on the drawings, joints are to be sealed using Emer-Seal PU50, one part polyurethane sealant as supplied by Parchem. Joints shall be prepared and the sealant applied in accordance with the current Technical Data Sheet.

## APPLICATION INSTRUCTIONS

### PREPARATION

The joint surfaces must be thoroughly dry, clean and frost free. Remove all dirt, laitance, curing compounds, form release agents, loose materials and foreign matter from the joint faces. Remove all rust, scale and protective lacquers from metal surfaces. Non-porous surfaces should be degreased using Solvent 10.

In all joints a bond breaker must be used to prevent sealant contact with the back of the joint, to allow optimum sealant performance.

Deep joints should incorporate a backing strip such as Expandafoam or Stiffjoint to support the sealant while also acting as a bond breaker.

### PRIMING REQUIREMENTS

Priming of porous substrates is always recommended, however good adhesion can be gained on concrete, timber, metals, ceramics, brickwork and most coating surfaces without the use of primers. Adhesion is improved with use of a primer. To achieve optimum adhesion to concrete and other porous materials use Primer 21; on non-porous materials such as metals use Primer 4. Primer 13 must be used on porous surfaces if the Emer-Seal PU50 is to be water immersed.

### GUN LOADING

Emer-Seal PU50 is applied using a suitable sealant gun. Insert the sachet into the gun, cut a slit in the top of the sachet, replace the end cap and apply the sealant.

### APPLICATION

Extrude sealant firmly into joint to ensure complete contact with joint faces. Smooth finish if necessary with a spatula.

### CLEANING

Clean tools immediately after use with Solvent 10.

## LIMITATIONS

Do not apply Emer-Seal PU50 to bituminous surfaces nor allow bitumen to contact Emer-Seal PU50.

## ESTIMATING

**Supply:** 600 ml foil sachet, cartons of 20

**Coverage:** On average one 600 ml sachet will supply 12 metres of 10 mm x 5 mm sealant bead

## STORAGE

Shelf life 6 months. Store in a cool dry place.

## IMPORTANT NOTICE

A Material Safety Data Sheet (MSDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. Read the MSDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

## PRODUCT DISCLAIMER

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.

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