

## **DATA SHEET**

### **521** **PU JOINT SEALANT**

(Page 1 of 4)

V1-03/07/2017

521 is a single-component, medium modulus, elastic polyurethane for bonding and sealing of various construction materials.

#### **APPLICATIONS :**

For horizontal and vertical joints.

Suitable for filling and sealing all kind of cracks and spaces between construction elements.

Suitable for conduits and cable boxes.

Bonding inside and outside pre-fabricated elements, stair steps, window sills, doorsteps, panels.

Very strong adhesion to concrete, stone, ceramic, tiles, wood, aluminium, metal, bricks and plaster board.

#### **ADVANTAGES :**

Single component, ready for use

Fast curing

Strong adhesion to usual materials for building construction.

Elastic

Compensates substrate irregularities

Non corrosive

Perfect sealing

Crack filling

High aging and weather resistance

UV resistance

Can be over-painted

Reduces vibrations

## DATA SHEET

### 521 PU JOINT SEALANT

(Page 2 of 4)

#### PROPERTIES:

|                                             |   |                                   |
|---------------------------------------------|---|-----------------------------------|
| Shore A Hardness (ISO 868)                  | : | 25-35                             |
| Modulus at 100 % (ISO 8339)                 | : | 0.25 - 0.35 MPa                   |
| Elongation at break (ISO 8339)              | : | >250%                             |
| Movement capability                         | : | 25 %                              |
| Elastic recovery (ISO 7389)                 | : | >70%                              |
| Skin formation time (23°C, 50 % RH)         | : | ± 45 Minutes                      |
| Curing rate (24 hrs, 23°C, 50 % RH)         | : | ≥ 3.5 mm                          |
| Application temperature Service temperature | : | + 5°C / + 40°C<br>- 20°C / + 80°C |
| Resistance to flow at 23°C (ISO 7390)       | : | ≤ 3 mm                            |
| Resistance to flow at 50°C (ISO 7390)       | : | ≤ 3 mm                            |
| Specific gravity                            | : | 1.3 g/cm <sup>3</sup>             |
| Shrinkage (ISO 10563)                       | : | ≤10%                              |

Chemical resistance (indication only): water, cleaning agents, accidental spills of oils and hydrocarbons, acids and diluted bases.

Clear colours may change over time due to the polyurethane sensitivity to UV. This change is only esthetic and does not affect the mechanical properties of the cured product.

#### Test reports:

For use in contact with potable water, certificate of AMS Laboratories according to Standard AS/NZS 4020:2005

CE: EN 19651-1:2012, F EXT-INT CC

#### SURFACE PREPARATION:

Surfaces must be cohesive, dry, homogenous and free of dust, oil or loose particles. Users must check the compatibility of the sealant with the surface in terms of adherence and staining risks. 521 is not recommended for water immersion, on PP/PE surfaces, Teflon, PVC or bitumen.

Apply 521 with a manual or pneumatic gun.

## DATA SHEET

### 521 PU JOINT SEALANT

(Page 3 of 4)

#### **Consumption:**

Applicable joint length with a 310 ml cartridge (in meters):

| Joint depth<br>(in mm) | Joint width (in mm) |     |     |     |     |
|------------------------|---------------------|-----|-----|-----|-----|
|                        | 4                   | 6   | 8   | 12  | 20  |
| 4                      | 19                  | 13  | 9.7 | 6.5 | 3.8 |
| 6                      | -                   | 8.6 | 6.5 | 4.3 | 2.6 |
| 8                      | -                   | -   | 4.8 | 3.2 | 1.9 |
| 10                     | -                   | -   | -   | 2.6 | 1.6 |

#### **PACKAGING :**

**D521** is available in cartridges (310 ml) and sausages (600 ml).

Colours: White, grey

#### **Safety:**

Contains polyisocyanates.

Avoid contact with skin.

In case of contact with eyes, rinse immediately with water and consult a physician.

Use only in well ventilated areas.

Keep out of reach of children.

Consult 521 Safety Data Sheet.

## **DATA SHEET**

**521**

### **PU JOINT SEALANT**

**(Page 4 of 4)**

#### **Shelf-life - storage:**

12 months from the manufacturing date, in its original unopened package away from humidity. Store in a properly ventilated room at a maximum temperature of 30°C.

The information contained in this bulletin is to the best of our knowledge true and accurate but any recommendations or suggestions, which may be made, are without guarantee since the conditions of use are beyond our control. Furthermore, nothing contained herein shall be construed as a recommendation to use any product in conflict with existing patents covering any material or its use.

**The technical data furnished is obtained from controlled laboratory tests under ideal application conditions. No guarantee of any performance characteristic is therefore given or implied and we do not hold ourselves responsible for any consequential damage of whatsoever nature that may arise from use of our products. In the event of a proven fault our liability will be limited to the replacement of the product only. It is the users' responsibility to confirm the currency of product data sheets.**