



## **KL-22 LEAD SEALANT.**

### **DESCRIPTION.**

**Kingfisher KL-22 Lead Sealant** is a high quality, one component, neutral, moisture cured elastomeric sealant which is suitable for all building and construction joints. It cures at room temperature to produce a flexible, low modulus, elastomeric seal. **KL-22** will adhere, without primer, to most common building substrates. Once cured it has movement capability of  $\pm 50\%$  over a wide range of temperatures.

### **CHARACTERISTICS.**

**Kingfisher KL-22 Lead Sealant** combines the advantages of a low modulus elastomeric sealant (minimum strain on joint surfaces) with primerless adhesion and neutrality on most construction surfaces. Mechanical properties and adhesion are not affected by prolonged exposure to sunlight, rain, snow or ozone. Cured **KL-22 Lead Sealant** is resistant to diluted bases, salt spray and short term exposure to most common industrial solvents and hydrocarbon based products.

Acids and oxidants can affect **KL-22 Lead Sealant**.

### **AREAS FOR USE**

**Kingfisher KL-22 Lead Sealant** has been specially developed for jointing or bonding in building and construction applications such as :-

- Expansion joints and curtain walls
- Movement and anchoring joints in lead flashing and the substrate.
- Bonding joints in metals, painted or unpainted wood, uPVC, polycarbonates, polymethylacryles, ABS, concrete, granite and marble. (Staining trials should be carried out on marble and some porous stone.)

### **APPLICATION PROCEDURE**

Joint dimension :- The movement capability of the sealant as well as local regulations must be considered. Joint width should be twice the depth.

Sealant application :- For good performance it is essential that the sealant is only bonded to the two facing sides of the joint. To achieve this, install a backing support material (Construction foam is ideal). In deep joints, backfill these with **Kingfisher CONSTRUCTION FOAM**, then seal the joint with **KL-22 Lead Sealant**. Apply the sealant in a continuous operation making ensuring all air pockets and voids are filled. Tool the sealant with light pressure to spread the material against the joint faces and remove excess. The **Kingfisher Silicone Finishing Tool** is ideal, used before the skin formation occurs.

**Note:-** Lead surfaces always need to be wire brushed to remove their oxide coat prior to forming the joint.

### **LIMITS of USE**

**Kingfisher KL-22 Lead Sealant** is not recommended for use on materials where migration of constituents can take place, e.g. certain rubbers. It must not be used for jointing aquariums or swimming pools.

**Kingfisher KL-22 Lead Sealant** must not be use where food contact is possible.

**Kingfisher KL-22 Lead Sealant** should not be over painted even when cured (Poor adhesion of paint will result).

### **TYPICAL PROPERTIES.**

- |                                   |                          |
|-----------------------------------|--------------------------|
| • Cure system                     | Neutral, moisture cured. |
| • Specific Gravity                | 1.24 approx.             |
| • Slump ISO                       | Nil.                     |
| • Skin over time. (23°C & 50% RH) | 12 minutes.              |
| • Tack free time. (23°C & 50% RH) | 2 hours.                 |
| • Cure time. 1 <sup>st</sup> day  | 1mm. approx.             |
| • Cure time. Minimum/7 days.      | 5mm approx.              |
| • Application Temperature Range.  | +5°C to 40°C.            |
| • Service Temperature Range.      | -50°C to +120°C.         |
| • Joint Movement capability.      | ± 50%.                   |

#### MECHANICAL PROPERTIES (2mm thick film-ASTM D412).

- |                                    |                      |
|------------------------------------|----------------------|
| • Tensile at 100% elongation, MPa. | 0.25 (35psi) approx. |
| • Tensile strength, MPa,           | 1.0 (70psi) approx.  |
| • Elongation at break, %.          | 500% approx.         |

#### MECHANICAL PROPERTIES on SLABS. (ISO 8339).

- |                                    |                      |
|------------------------------------|----------------------|
| • Tensile at 100% elongation, MPa. | 0.25 (35psi) approx. |
| • Tensile strength, MPa.           | 0.5 (70psi) approx.  |
| • Elongation at break, %.          | 400% approx.         |

### **PACKAGING & STORAGE.**

**Kingfisher KL-22 Lead Sealant** is supplied in 310mm cartridges (12 per carton) and unopened has a shelf life of 18 months from the date of manufacture shown on the packaging.

### **STANDARDS.**

**Kingfisher KL-22 Lead Sealant** meets or exceeds the requirements of the following standards:-

- BS ISO 11660:1993
- UBATC (Class 6).

For further Health and Safety information on this product please refer to the Kingfisher Safety Data Sheet, copies of which are available from the Kingfisher Technical Dept. Tel. 01229 869100 or Fax 01229 868101.

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