

# TECHNICAL DATASHEET

## Polyurethane 25

### Description & Uses

Cromar Alpha Chem Polyurethane 25 is a single component, fast curing, polyurethane based elastomeric sealant used for joints where a highly elastic strong bond is required, excellent weathering properties.

Specially developed for bonding various building materials and for sealing of expansion joints. As a sealant it adheres, without a primer, to the substrates such as wood, concrete, stone, anodized aluminium, polyester, glass, ceramics, baked clay. Overpaintable\*

### CE Marked to EN 15651-1 F -EXT-INT CC.

Ideal for:

- All sealing and bonding applications in the building and construction industry
- Sealing expansion joints in concrete floors

**Available in:** White, Grey and Black in 300ml cartridges and 600ml foils.

### Priming

- Adheres without primer on most commonly used substrates such as wood, anodized aluminium, polyester, glass, concrete, baked clay, stone and ceramic tiles.
- For difficult materials such as plastics (PVC, ABS, PMMA) or materials such as raw aluminium or lacquered metal perform preliminary tests to determine whether surface preparation is necessary.

### Substrate Preparation

- Ensure surfaces to be bonded are clean and dry, free from dust, grease or other contaminants which could affect the bonding process. If the substrates need to be cleaned methylethylketone, (MEK) or acetone can be used. For surfaces sensitive to ketones use ethanol, extra care must be taken when using alcohol as a solvent to prevent any contact with the sealant. Make sure to check their compatibility with the substrates first. When using solvents, use in a well ventilated area. Extinguish all sources of ignition, ensure follow suppliers instructions.
- If necessary, apply a primer, which can improve the durability of the bond in humid conditions.
- It is recommended to rub down concrete, particularly cement film residue, with a metal brush. After scraping remove the dust.



- If necessary, rub down metallic surfaces beforehand (especially in presence of oxidation). After rubbing down, clean them with a solvent and allow to dry for at least 10 minutes.

#### **Application**

- Apply with a suitable foil applicator gun.
- For tooling down, apply light pressure, using a wetted spatula or putty knife.
- When bonding, ensure the bond is made before a skin has formed.
- Excess uncured product may be cleaned with Cromar Alpha Chem Grafters Wipes. Cured product can be removed mechanically.
- It is the user's responsibility to dispose of all packaging correctly.

*Please note: This product should be used within 24 hours which follow the opening of the packaging; otherwise, the sealant could cure.*

#### **Maximum Application size:**

Maximum width 40mm - Minimum width 6mm

X

Maximum Depth 20mm

\* as with all sealants - the joint depth should never exceed the joint width.

#### **Storage**

The product should be stored unopened in a dry condition at a temperature of 5-25°C. In cold weather store the product at around 20°C before use. Keep out of the reach of children.

#### **Shelf Life**

24 months when stored as directed.

#### **Limitations**

- Do not apply at a temperature below 5°C.
- For difficult materials, including plastics such as PVC, ABS, PMMA, or materials such as raw aluminium or lacquered metal, perform preliminary tests to determine whether a surface preparation is necessary.
- Avoid any contact with non-cured MS, hybrid PU or silicone sealants as well as with alcohols or ammonia during curing.
- \*We recommend on solvent based paints that tests are carried out before hand to ascertain compatibility.
- It is the user's responsibility to ensure suitability for use.
- Read the label prior to use it contains essential health and safety information, further information can be found on the Safety Data Sheet available on request.

## Technical Data

<b>Appearance</b>	Paste
<b>Density at 20°C</b>	Black 1.15 ± 0.02 Other Colours: 1.16 ± 0.02
<b>Sagging (ISO 7390)</b>	< 3mm
<b>Application Temperature</b>	5 to 35°C
<b>Skin formation time at 23°C and 50% RH</b>	90-150 mins**
<b>Cure time at 23°C and 50% RH</b>	3mm after 24 hr
<b>Shore A hardness (internal method IT-20 after ISO 868 – 3 seconds)</b>	Approx. 25 after 14 days
<b>Modulus at 100% (ISO 8339)</b>	≤ 0.4 MPa
<b>Elongation at break (ISO 8339)</b>	>400%
<b>Tear Strength (ISO 34)</b>	Approx. 6.5 N/mm
<b>Temperature resistance</b>	-40 to +80°C (on cured sealant)
<b>Resistance to dilute acids and bases</b>	Average
<b>UV resistance</b>	Good
<b>Weatherability</b>	Good
<b>Compatibility with paints</b>	On cured sealant: Water Based Paints: Yes Solvent Based Paints: Carry out tests beforehand
<b>Dimensional Stability according to NF-EN 10563 standard</b>	≥ -10%
<b>Movement Capability</b>	± 50% according to ASTM C719 ± 25% according to ISO 11600

\*\* this time depends on the hygrometry and ambient temperature. In order to ensure good adhesive it is mandatory to do the bonding before the skin has formed.

### Further Information:

In the event of further queries or problems concerning the use of this product, please contact the address below, e-mail [info@cromar.uk.com](mailto:info@cromar.uk.com).

*All products should be sold in accordance with the manufacturer's instructions. The manufacturer cannot be held responsible where conditions of use are beyond our control. Cromar Building Products Limited products' are available for sale in accordance with Cromar Building Products Limited standard conditions of sale, which is available upon request. Whilst any information contained herein is to the best of our knowledge true and accurate, no warranty is given or implied in connection with any recommendations, agents, or distributors, as the conditions of use and any labour involved are beyond our control. Our warranty is therefore limited to the quality of supplied product.*