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# FIX & SEAL

## MS POLYMER BASED SEALANT AND ADHESIVE

- HIGHLY FLEXIBLE
- BONDS TO WET & DRY SURFACES
- AVAILABLE IN BRILLIANT WHITE
- ACCOMMODATES + / - 20% MOVEMENT
- OVER PAINTABLE



### TECHNICAL SUMMARY

|                       |                     |
|-----------------------|---------------------|
| MATERIAL TYPE         | Polyurethane Hybrid |
| CURING METHOD         | Moisture cure       |
| SKIN FORMULATION TIME | 10 to 30 minutes    |
| CURING RATE           | 4mm per 24 hours    |
| HARDNESS              | 50 (+/- 5) Shore A  |

### PALACE FIX & SEAL

A high modulus polyurethane hybrid based sealant and adhesive. This one component application is designed to cure when exposed to moisture, remaining permanently elastic, providing excellent adhesion to most substrates either wet or dry. Fix & Seal is recommended for sealing and bonding all types of sanitary fittings, glazing panels, shower trays and wall trims.

EXCELLENT  
ADHESION

PROVIDES A FLEXIBLE & DURABLE  
SEALED JOINT

# FIX & SEAL

## MS Polymer Based Sealant and Adhesive



### DESCRIPTION

**PALACE FIX & SEAL** is a high modulus, one component, polyurethane hybrid based sealant and adhesive that remains permanently elastic and has good adhesion to most substrates. It is recommended for sealing and bonding all types of construction composites including metal panels, trays and trims. **PALACE FIX & SEAL** will also seal expansion joints in concrete panels and floor joints and can be used in applications subject to vibration and mechanical abrasion and also when fully cured can be exposed to persistent & regular wetting, even providing resistance to salt water solutions for marine applications.

Available in Clear & White.

### SURFACE PREPARATION

Ensure all joint areas, voids and contact surfaces are dry, clean and free from dirt, grease and loose surface coatings. Check that any bitumen-based materials are not in a position, which requires a bond, or contact with the sealant or any materials likely to release plasticisers or solvents. It is not recommended for application to surfaces that are below 5°C as it is impossible to guarantee a dry, frost-free surface at these temperatures. Concrete must be sealed using a Primer. If in doubt consult Technical Services. This product should not be used in potable water tanks.

### APPLICATION METHOD

Use a sharp knife to cut off the tip of the cartridge, whilst leaving sufficient thread in place to engage with the nozzle. Cut the nozzle tip at a 45° angle and at a point to give the required joint width. Fit the cartridge into a suitably sized skeleton gun and slowly, but consistently extrude the sealant into the joint, whilst at the same time drawing the cartridge along the line of the joint to ensure even placement. Joint depth should never exceed joint width and where this is the case it may be necessary to insert a PU foam backer strip to control joint depth adhesion to the background substrate. **PALACE FIX & SEAL** can be smoothed into the joint within 5 minutes of application using a lightly dampened pallet knife, or similar tool to give a blemish-free even surface. **PALACE FIX & SEAL** has a tack-free time from about 10 to 30 minutes subject to site temperatures, when it will start to form a skin and depending on joint depth and site conditions will take about 24 hours to achieve complete cure through the joint (typically at a rate of 4mm / 24 hours).

### COVERAGE

**PALACE FIX & SEAL** when evenly extruded will cover at the rate according to joint dimensions (see table):

| JOINT WIDTH | LITRES PER METRE RUN | METRES PER TUBE |
|-------------|----------------------|-----------------|
| 4 X 4       | 0.016                | 20.0            |
| 5 X 5       | 0.025                | 12.4            |
| 5 X 10      | 0.050                | 6.2             |
| 10 X 10     | 0.100                | 3.2             |

The coverage rates shown in the above table are for guidance purpose only and do not take into full consideration the effects of site conditions and wastage when the joint face is cleaned and smoothed.

### STORAGE AND PACKAGING

**PALACE FIX & SEAL** is supplied in standard cartridges and has a storage life of not less than 12 months if kept in dry, un-opened conditions.

### HEALTH AND SAFETY

A complete PALACE material safety data sheet is available on request or online at [www.palacechemicals.co.uk](http://www.palacechemicals.co.uk)

### QUALITY AND ENVIRONMENT

All Palace Chemicals products are manufactured under a BSI accredited ISO 9001:2015 Quality Management System, along with an ISO 14001 Environmental Management system continually working to reduce our carbon footprint.

| SPECIFIC PERFORMANCE DATA |                        |
|---------------------------|------------------------|
| MATERIAL TYPE             | Polyurethane Hybrid    |
| CURING METHOD             | Moisture cure          |
| SKIN FORMULATION TIME     | 10 to 30 minutes       |
| CURING RATE               | 4mm per 24 hours       |
| HARDNESS                  | 50 (+/- 5) Shore A     |
| SHRINKAGE                 | < 3%                   |
| SPECIFIC GRAVITY          | 1.50 +/- 0.05          |
| SERVICE TEMP °C           | -40°C to 90°C          |
| ELASTIC RECOVERY          | > 90%                  |
| BREAK POINT               | 400% elongation        |
| BREAK STRENGTH            | 1.7 N/mm <sup>2</sup>  |
| ELASTICITY MODULUS 100%   | 0.94 N/mm <sup>2</sup> |

Conforms to EN 15651 parts 1: F-EXT-INT CC & part 3 S.



EN ISO 45001



OHS 596309

EN ISO 14001



EMS 85788

EN ISO 9001



FM 01010

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## MS Polymer Based Sealant and Adhesive



### TECHNICAL ADVISORY SERVICE

Should more specific technical information be required, contact the Palace Technical helpline on: **0151 486 6101**.

For a Technical Specification and quantity requirements, visit our 'TilingSpecifier' on the Palace website at:

<http://www.palacechemicals.co.uk>

### DISCLAIMER

The information provided by this Technical data sheet is given in good faith and is to the best of our current knowledge true and accurate. Our products are guaranteed against defective materials and manufacture and will be replaced or money refunded if the goods do not comply with our promotional literature. We cannot however accept responsibility arising from the application or use of our products because we have no direct or control over where and how our products are stored and used. All products are sold and guaranteed subject to our terms and conditions of sale, copies of which may be obtained on request.



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