



# Technical Data Sheet



**PALACE MULTI-PURPOSE SILICONE SEALANT** is available in **WHITE, CLEAR, GREY, BROWN, BLACK and IVORY**. It easily extrudes from a cartridge with minimal gun hand pressure and will form a waterproof, highly elastomeric permanent seal joint around bathroom fittings; sanitary ware; ceramic tile movement joints; door and window frames. **PALACE MULTI-PURPOSE SILICONE SEALANT** is an acetoxy silicone sealant which cures rapidly with atmospheric moisture quickly to a permanent weather and waterproof elastomeric rubber-like seal

- Ideal for sealing around baths, showers, basins and kitchen sanitary ware.
- Shows excellent adhesion when fixing PVCu trims, cladding and frames.
- The universal solution for waterproof sealing around worktops and laminates.
- Can be used to form movement joints around tiled areas & perimeters

## Description:

**PALACE MULTI-PURPOSE SILICONE SEALANT** is a high modulus; cartridge applied highly versatile silicone sealant that easily extrudes from a cartridge with minimal gun hand pressure and will form a waterproof, highly elastomeric permanent seal joint around bathroom fittings; sanitary ware; ceramic tile movement joints; door and window frames. **PALACE MULTI-PURPOSE SILICONE SEALANT** is suitable for both interior and exterior applications and demonstrates excellent adhesion to a wide range of building materials, including glazed ceramic tiles, metal cladding, glass, impermeable coated surfaces, UPVC and most common plastics.

## Surface Preparation:

Ensure all joint areas, voids and contact surfaces are dry, clean and free from dirt, grease and loose surface coatings, check that the surrounding surfaces are not likely to be sensitive to contact with the acetic acid released when the sealant is curing. Check that any bitumen-based materials are not in a position, which requires a bond, or contact with the sealant. Glass, metal and aluminium should be cleaned with White Spirit prior to application for optimum adhesion. Porous surfaces may require priming - a small area should be tested first. 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. (Usually 6mm for most sealing applications).

## Application Method:

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. In deep bed applications such as movement joints (> 10mm), it is advisable to insert a PU foam backer strip to control joint depth adhesion to the background substrate. **PALACE MULTI-PURPOSE SILICONE SEALANT** 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.

## Application Method cont'd:

**PALACE MULTI-PURPOSE SILICONE SEALANT** has a tack-free time of about 8 minutes and will start to form a skin after about 30 to 40 minutes 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 3mm / 24 hours).

## Coverage:

**PALACE MULTI-PURPOSE SILICONE SEALANT** will seal linear joints up to the following length (shown in metres), when consideration is given to both the width and depth of the joint to be filled. In deep movement joints it is advisable to use PU backer foam strips to maximise sealant output:

## Limitations:

**PALACE MULTI-PURPOSE SILICONE SEALANT** is not over-paintable, nor should it be used in aquarium manufacture or in contact with bitumen or asphalt coated substrates. On highly porous surfaces such as new concrete or stonework, priming may be necessary. Do not apply in contact with substrates that may bleed oils, solvent or plasticisers.

**PALACE MULTI-PURPOSE SILICONE SEALANT** should not be used in conjunction with the edge sealant of double-glazed units, or for perimeter pointing of uPVC. Use Do not use on surfaces based on lead, brass, marble, copper and galvanized steel.

EN ISO 14001



EMS 85788

EN ISO 9001



FM 01010

EN ISO 18001



OHS 596309

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## Coverage:

When fixing on a level, even surface using a 10mm notched trowel, **PALACE EASI-FLEX** will cover at a rate of about 4kg per sq. mtr for heavy-duty, studded tiles. When applying wall tiles, the product will cover at about 2.5 kg per sq. mtr.

S.G 1.00 g/ml	JOINT DEPTH IN mm	JOINT WIDTH IN mm				
		6	12	15	20	25
	3	17	8.5	6.8	5.1	4.1
	6	9	4.5	3.6	2.7	2.2
	8	6.6	3.3	2.6	2.0	1.6
	10	5.2	2.6	2.1	1.6	1.3
	12	4.4	2.2	1.7	1.3	1.1

## Storage & Packaging:

**PALACE MULTI-PURPOSE SILICONE SEALANT** is supplied in standard cartridges (25 per case) and has a storage life of not less than 24 months if kept in dry, un-opened conditions at ambient room temperature conditions. Consult the SILICONE SEALANT material safety data sheet for advice on handling and safety procedures. Should further, more specific technical information be required, contact the Palace Technical helpline on 0151 486 6101.

## Health & Safety:

Always ensure that appropriate PPE is worn when mixing & applying this product to ensure protection from airborne dust and skin contact with the mixed liquid product. Wash hands after use and launder stained clothing. Do not consume food when working with this material and keep children & animals away from any possible risk of contact. A complete PALACE material safety data sheet is available on request or online at [www.palacechemicals.co.uk](http://www.palacechemicals.co.uk)

## Quality & 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

## 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, however it is given without guarantee, as conditions of use and workmanship involved are both beyond our control. All information supplied is subject to the company's terms and conditions of sale, copies of which are available on request.

## Technical summary:

### 1. Applications properties:

Unit size:	300ml
Base type:	Acetoxyl
Skinning time:	< 10 mins*
Curing rate:	2mm/24hr* @ 23°C / 50% RH
Application rate:	200 g/min
Application Temps:	+5 – +40°C
Specific gravity:	1.00
Shelf-life:	24 months minimum

- \* Dependent on temperature substrate and site conditions

### 2. In-Service properties:

In service Temps:	-30°C to +150°C
Movement accommodation:	12.5%
Elongation at break:	500%
Tensile Strength:	1.3 N/mm <sup>2</sup>
Shore A hardness:	20
Paintability:	Nil
Frost resistance:	-15°C
Flow:	< 2mm

## Performance test data:

Certified under the harmonized European standard EN15651 for façade, cold climate and sanitary applications in compliance with the Construction Product Regulations:

<b>EN 15651:2012</b>	
Type F – EXT-INT-CC (Facade elements)	
Type G-CC (Glazing)	
Type S: CLASS S1 (Sanitary joints)	
Reaction to fire	Class E
Resistance to flow ISO 7390	≤ 3mm
Elastic recovery	≥ 60%
Durability ISO 9047; ISO 10690 & ISO 8340	Pass
Loss of volume ISO 10563	≤ 45%

EN ISO 14001



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