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TECHNICAL DATA SHEET

PRODUCT **BRITCHEM HYBRID POLYMER ADHESIVE & SEALANT**

DESCRIPTION

BritChem Hybrid Polymer adhesive & sealant is a one part, solvent-free adhesive based on the latest polymer technology. It has excellent UV resistance and primerless adhesion to most substrates. It cures to a tough, elastic adhesive sealant with applications across a range of industries. The cured sealant has good abrasion, oil and solvent resistance.

APPLICATION

Construction uses include perimeter sealing of plastic, timber and metal frames along with the sealing of expansion and construction joints; it may be used on moist surfaces.
The product is also suitable for many applications within the automotive, Roofing, marine and coachwork industries.
Suitable for sealing and bonding connection joints in ducting, ventilation and air conditioning installations.

LIMITATIONS

BritChem Hybrid Polymer Sealants should not be used to seal aquariums. Submerged joints need special attention to surface preparation and application and should be checked for integrity at regular intervals.
Always check to determine suitability of the sealant on any surface that may give cause for concern.

TECHNICAL DETAILS

Type	Hybrid Polymer
Cure system	Cures by vulcanization upon exposure to moisture in atmosphere.
Specific Gravity	Colours: 1.45 – 1.50; Translucent: 1.03-1.07
Skinning Formation Time	Approx. 15-20 minutes (at 23ₒC and 50% relative humidity).
Cure rate	Approx. 3mm per 24Hrs (at 23ºC and 50% relative humidity). As the joint depth increases, the cure rate will slow down.
Shore A hardness	45 -55 (DIN 53505)
Tensile Strength at 100% extension	0.6 Mpa
Movement accommodation	±25%
Flow	<2mm (ISO 7390)
Frost Resistance During Transport	Up to -15
Application Temp Range	+5ºC to +35ºC.
Service Temp Range	-40ºC to +100ºC.

Shelf Life 12 months when stored in unopened cartridges under cool, dry conditions.

Life Expectancy - When used and applied correctly the sealant will perform in excess of 20 years.

APPLICATION INSTRUCTIONS

Surfaces to which Sealant is to adhere must be clean and free from loose material, standing water or contaminants, which otherwise may impair the bond. Non-porous surfaces such as aluminium should be cleaned with a suitable product. It may be necessary to prime some porous surfaces depending on cohesiveness and porosity of the substrate. For application where some movement will be exhibited i.e. construction joints, the minimum joint dimensions should be 6mm x 6mm with the maximum dimensions being 20mm wide by 12mm deep. Where deeper joints are found, depth can be reduced using a suitable backer rod. Areas of perimeter pointing where a fillet is to be applied, the minimum measurement across must be 10mm with a minimum depth of 6mm. If conditions are suitable for application, ensure joints are properly prepared and apply sealant firmly into the joint using an application gun. Ensure a good solid fill is achieved. Once applied, sealant can be tooled within 10 minutes to required finish.
The cured sealant can be painted if required but is not necessary. Painting sealant in a movement joint is not recommended as the movement of the sealant may be greater than the flexibility of the paint, leading to cracking or crazing of the paint film.

COVERAGE

1 std size cartridge is sufficient to seal approximately 10m with a 6mm bead. Also available in a 600ml foil pack

COLOURS

White, Light Grey, Dark Grey, Black, Grass Green and Translucent as standard and other colours on request

STORAGE

Store in dry conditions between 5°C and 25°C.

HEALTH AND SAFETY

Consult Health and Safety Data Sheet.
Avoid contact of uncured sealant with the skin. If uncured sealant comes into contact with eyes, flush out immediately with clean water for at least 5 minutes. Consult medical advice if irritation persists
Use in a well-ventilated area.
As with all chemical products, care should be taken during use and storage.
Do not eat or drink while using the product.
Keep away from children and animals.

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