BritChem Ltd

Your Brand partner

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TECHNICAL DATA SHEET

PRODUCT **BRITCHEM HYBRID POLYMER ADHESIVE**

DESCRIPTION

BritChem Hybrid Polymer adhesive offers optimum initial bond strength well in excess of more traditional solvented adhesives and provides 21st century performance that bonds almost all material types, can be used both internally and externally, where its unique adhesive qualities allow a bond to be achieved whatever the weather, even in the rain and it will also cure underwater. It is a single part, solvent and Isocyanate free adhesive based on the latest polymer technology which is quick curing and retains a good level of flexibility after curing.

APPLICATION

The areas of application that this product can be used for are expanding all the time the following are a selection of some common uses: -

Internally - Bonding wallboards, mirrors, decorative panels and mouldings, slate and brick slips, dado rails, Sanitary and kitchen installations and fixtures; it may be used to achieve bonds in humid conditions and on damp surfaces.

Externally – Bonding ridge tiles, name plates, window trims, fascia trims.

Industrial - Sealing and bonding of joints in vehicles, shipping containers, ducting, ventilation and air conditioning installations.

LIMITATIONS

BritChem Hybrid Polymer Adhesives 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.

Should not be used to bond Teflon or Polypropylene surfaces.

By their nature, Hi Grab Adhesives are stiffer to apply by handgun than most sealants, hence the special nozzle supplied (V-shaped cut nozzle only available with 310ml cartridges).

TECHNICAL DETAILS

Cure system:	Cures by vulcanization upon exposure to moisture in atmosphere.
Specific Gravity:	1.5 ± 0.05
Skinning time:	approx. 15 minutes (at 23ºC and 50% relative humidity).
Cure rate:	Approx. 2mm per 24Hrs (at 23ºC and 50% relative humidity). As the joint depth increases, the cure rate will slow down.
Shore A hardness:	approx. 75 - 80
Tensile Strength (100%):	1.2 MPa
Movement accommodation:	±15%
Application Temp Range:	+5ºC to +35ºC.

Service Temp Range:	-40ºC to +90ºC.
Shelf Life:	9 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 and any contaminants which otherwise may impair the bond. Non-porous surfaces such as aluminum should be cleaned with a suitable product. It may be necessary to prime some porous surfaces depending on cohesiveness and porosity of the substrate. If required, sealant can be tooled within 10 minutes to required finish.
To apply Adhesive, cut the tip of the cartridge and screw on the nozzle and apply using a good quality applicator gun in lines spaced at 30mm centers to one surface only. Immediately offer up and position ensuring good pressure is applied whilst simultaneously exerting a twisting action. If fixing extremely heavy items, temporary support is recommended during the Adhesives curing process. Always apply mechanical supports when fixing in overhead applications.
The cured sealant can be painted if required but is not necessary. Water based paints can be applied without any problems, however, Alkyd, Solvent and Oil based paints should only be applied following a base coat of a water-based undercoat.

COVERAGE

1 std size cartridge is sufficient to seal approximately 10m with a 6mm bead.

COLOURS

Natural & Other colours available where minimum batch quantities can be met.

STORAGE

Store in dry conditions between 5ºC and 25ºC.

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.

Further Information

These data are offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate

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