

E&C ADHESIVE 5124

■ Description

E&C ADHESIVE 5124 is an acrylic adhesive which is used with an initiator to give a rapid, room temperature, curing system. The adhesive has outstanding resistance to peel, impact and shear force, excellent durability and the ability to bond a wide variety of materials.



■ Application

E&C ADHESIVE 5124 has good adhesion to many different substrates such as natural and synthetic rubber, glass and ceramics.

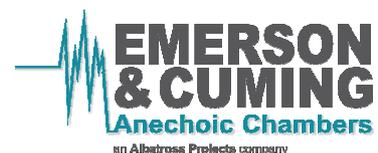
E&C ADHESIVE 5124 is typically recommended for bonding ECCOSORB FT, when mechanical fixation is not suitable.

■ Physical properties

The bond strength achieved with toughened acrylic adhesives will depend on several factors, including the nature of the substrate and bond line thickness. Typical figures are:

	E&C ADHESIVE 5124
Shear strength (Mpa)	35
Peel strength (N / cm)	60
Impact strength (J)	> 49

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The resistance of E&C ADHESIVE 5124 to most chemicals is very good, the exceptions being strong acids, strong alkalis and ketone. As with all adhesives, the chemical resistance is influenced by the joint design, duration of exposure and temperature. The table beside gives some typical figures. Service temperature: -60 to 120°C.

% strength retention after 7 days immersion at 23°C	
Water	94
Petrol	94
Toluene	92
Lubricating oil	96
Lubricating oil (100°C)	71
Antifreeze	93

■ Availability

E&C ADHESIVE 5124 is available in 320 ml cartridges PTA, supplied with PTB 35 ml initiator.

■ Instructions for use

Apply initiator sparingly to one surface, the use of excess initiator will only reduce strength and not give a faster cure. The initiator may be brushed or wiped on with a cloth. The adhesive is applied onto the second surface, preferably as a bead, in such a pattern as to ensure no air is trapped as the joint is assembled. Spreading adhesive prior to joint assembly will result in a lower strength and durability. The adhesive is applied directly from the tube or cartridge. The joint should be assembled immediately and light pressure employed until handling strength is achieved. The one-part life for the initiator is 6 hours and that for the adhesive is less than 5 minutes, so it is recommended that components are assembled immediately after application of the adhesive.

Volume of adhesive: 320 ml	
Bead diameter	Bead length (m)
1.5 mm	160
3 mm	40
6 mm	9.5

Adhesive coverage:

The figures shown give a guide to the approximate amount of adhesive necessary to fill a joint. Allowance must be made for waste etc. An adhesive bead of 1.5 mm diameter will squeeze down to cover a 25 mm wide strip giving an adhesive thickness of 0.075 mm. An adhesive bead of 3 mm diameter will squeeze down to cover a 25 mm wide strip giving an adhesive thickness of 0.3 mm. An adhesive bead of 6 mm diameter will squeeze down to cover a 25 mm wide strip giving an adhesive thickness of 1.2 mm.

Storage conditions:

Shelf life is 6 months when stored in the original unopened containers at or below 25°C.

Keep containers in a cool and dry place away from excessive heat, sparks, flame and sunlight.

Transportation classification: UN1133, VP Class III F1, GK 30GF1-III.

Safety Considerations: It is recommended to consult the E&C ANECHOIC CHAMBERS product literature, including material safety data sheets, prior to use E&C ANECHOIC CHAMBERS products. These may be obtained from your local sales office.

WARRANTY: Values shown are based on testing of laboratory test specimens and represent data that falls within the normal range of properties of the material. These values are not intended for use in establishing maximum, minimum or ranges of values for specification purposes. Any determination of the suitability of the material or any use contemplated by the user and the manner of such use is the sole responsibility of the user who must assure that the material as subsequently processed meets the needs of this particular product or use.

We hope the information given here will be helpful. It is based on data and knowledge considered to be true and accurate and is offered for the user's consideration, investigation and verification but we do not warrant the results to be obtained. Please read all statements, recommendations or suggestions in conjunction with our conditions of sale INCLUDING THOSE LIMITING WARRANTIES AND REMEDIES which apply to all goods supplied by us. We assume no responsibility for the use of these statements, recommendations or suggestions nor do we intend them as a recommendation for any use which would infringe any patent or copyright.

2010/04 - V01/2

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