



Anglo Adhesives & Services Ltd.

INDUSTRIAL ADHESIVE MANUFACTURERS - CONTRACT FILLING AND PACKAGING

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TECHNICAL DATA SHEET

EVO-TECH TA 431

INTRODUCTION:

EVO-TECH TA 431 is a two component, highly reactive toughened acrylic adhesive, designed for structural bonding, with the convenience of a room temperature cure. The adhesive cures very fast and bonds to a wide range of substrates.

The product provides high shear strength, impact resistance and peel strength in comparison with other room temperature cured adhesives, and performs well in humid and exposed external environments.

The adhesive bonds extremely well too many different substrates to themselves and each other ie. Metal, steel, aluminum (especially "DIBOND"), wood, glass and many plastics rigid and semi-rigid etc.,

EVO-TECH TA 431 is widely used in the sign making and P.O.P. market as well as construction, lighting and automotive industry and many others.

FEATURES:

- Economical in use
- Fast and safe and easy to apply via hand gun & mixers
- Strong bond, room temperature cure
- Withstands adverse weather conditions in outdoor use

Polymer Base:-
Acrylic

Initial Cure
Time:-
4 - 9 Minutes

Coverage:-
2m2 per ltr

Specific
Gravity:-
1.4kg/Ltr

Viscosity:-
Paste/Liquid

Solids:-
100%

Cleaner /
Thinner:-
Cleaner 3

Shelf Life:-
6 months

Storage:-
5 - 25 °C

Nearest
Alternative:-
Evo-Tech TA
432 Surface
Activated

INSTRUCTIONS FOR USE:

IMPORTANT: Before embarking on any work involving EVO-TECH TA 431, the Material Safety Data Sheet should be carefully studied by those Carrying out the work.

Always test a small sample to satisfy yourself of the adhesives suitability for the exact application in hand.

Some substrates may need the surface preparing emery or priming before bonding can take place. (Especially smooth surfaces that offer no immediate 'key' to its surface.

BONDING INSTRUCTIONS

Substrate Preparation

In most cases, little or no surface preparation is required, HOWEVER, IN CERTAIN CIRCUMSTANCES, ESPECIALLY WHEN BONDING RIGID SUBSTRATES, IE. METALS SPECIFIC SURFACE PREPARATION IS REQUIRED. PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR GUIDANCE. Please bare in mind that as with all adhesive bonding, a clean dry surface will give a stronger, more durable bond. EVO-TECH TA 431 is tolerant of some oil or grease surfaces; excessive contamination can be removed using ANGLO M SOLVENT. Bonds to non-metallic and some METALIC surfaces can be improved by light abrasion.

EVO-TECH TA 432-A surface activated acrylic adhesive is also available for Bonding large areas.

Application

EVO-TECH TA 431 is a two part room temperature curing acrylic adhesive. Both parts are viscous, highly flammable liquids. They are designed to be mixed together during use by dispensing through a static mixer nozzle attached to the dual cartridge in which the product is supplied. The two parts **MUST NOT** be dispensed without the nozzle fitted, nor should they be mixed by hand. This method could reduce the final adhesion.

Application of the adhesive should be directly from the nozzle onto one of the two surfaces to be bonded. The adhesive **SHOULD NOT** be dispensed into containers for later application. Bond line thickness should not exceed 3mm as the

application of large amounts of adhesive may result in excessive heat build up in the curing adhesive.

Immediately prior to use, the main end cap should be removed from the dual cartridge and a static mixer nozzle should be fitted. The ready-mixed adhesive may then be dispensed using the appropriate application gun. Adhesive allowed to remain in the mixing nozzle will cure inside it, consequently nozzles should be removed from part used cartridges and replaced by sealing the cap. When the remaining adhesive is to be dispensed a fresh nozzle should be fitted. Adhesive use should be continuous once a mixing nozzle has been fitted; pauses in dispensing should be avoided, if short pauses do occur, pre-mixed adhesive should be expelled from the nozzle before continued application of the adhesive.

Assembly

The surfaces should be brought together immediately after application of the adhesive and clamped in position until the adhesive sets. At 20-25 °C setting time will be approximately 4 - 9 minutes, (this depends on the application temperature). The time between application of the adhesive and assembly of the jo should be minimized to avoid skinning over the adhesive. Excess adhesive should be wiped off before it sets, using an absorbent paper towel.

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Every endeavor has been made to ensure that the information given herein is true and reliable but it is given only for the guidance of our customers. The company cannot accept any responsibility for loss or damage that may result from the of the information, due to the responsibility of variations of processing or working conditions and or workmanship outside our control. Users are advised to confirm the suitability of this product by their own use.