



ACRIFIX® TC 0030

Thinner and Cleaner

Product and Use

ACRIFIX® TC 0030 is a clear thin-bodied liquid used to adjust the viscosity of the adhesive. It is also used to prepare the area to be bonded, making it receptive to the adhesive which creates a stronger bond.

Applications

Can be used to reduce viscosity of two-component polymerization adhesives and for cleaning adherents to be bonded by means of polymerization adhesives.

Typical Values of Properties

- Viscosity (Brookfield A/60/68°F/20°C): ~ 0.6 cp
- Density/68°F/20°C: ~ 0.94 g/cm³
- Refractive index n_D68: ~ 1.415
- Color: clear and colorless
- Boiling point: ~ + 212°F/100°C
- Flash point (DIN 51755): ~ + 50°F/10°C
- Explosion limits in air: 2.1 to 12.5 Vol. %
- Storage stability: 2 years after filling, if correctly stored
- Packaging materials: aluminum, HDPE, PP and glass

Safety Measures and Health Protection

Contains methyl methacrylate. Irritates the eyes, respiratory system and skin. May cause sensitization by skin contact. Keep away from sources of ignition. Do not smoke. Wear suitable protective gloves. Avoid contact with the skin. In case of swallowing seek medical aid immediately.

Guidelines for Use

The viscosity of adhesives is adjusted so as to allow for their direct use. For certain applications it is helpful to dilute the adhesives beforehand. Reducing their viscosity allows for the following:

- More rapid degassing because air bubbles rise to the surface quicker in diluted adhesive – advantageous for large quantities of adhesive composition.
- Better leveling, thinner adhesive layers and somewhat delayed skin formation – advantageous for bonding large surfaces (particularly of thin sheets) and drill holes.
- Better wetting out and degassing when embedding fiber mats and woven fabrics.
- More rapid filling of butt joints between thick blocks.
- Diluted adhesives enable shorter pot lives and polymerization times (at higher hardener concentration), because degassing and processing can be performed more quickly than with undiluted polymerization adhesives.

The viscosity required for a specific application must be determined by trial and error. In general, adhesives should be diluted as little as possible. The hardener concentration (e.g. ACRIFIX® CA 0020) depends on the quantity of diluted adhesive. The influence of the thinner on viscosity and polymerization can be seen in the corresponding charts.

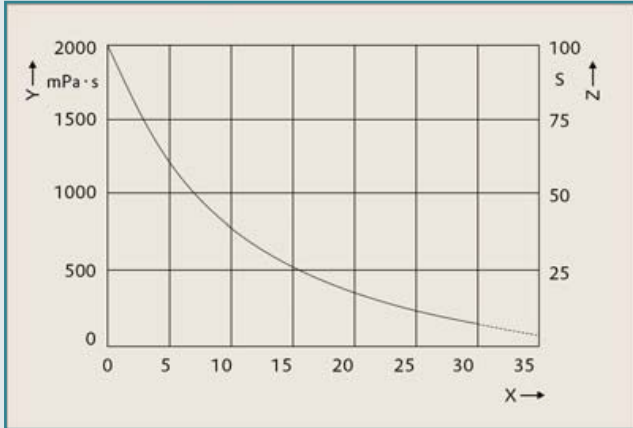
Other Measures

ACRIFIX® TC 0030 is well-suited for degreasing ACRYLITE® acrylic sheet surfaces prior to bonding. These are best wiped down with a clean white cloth or white paper towel soaked with ACRIFIX® TC 0030.



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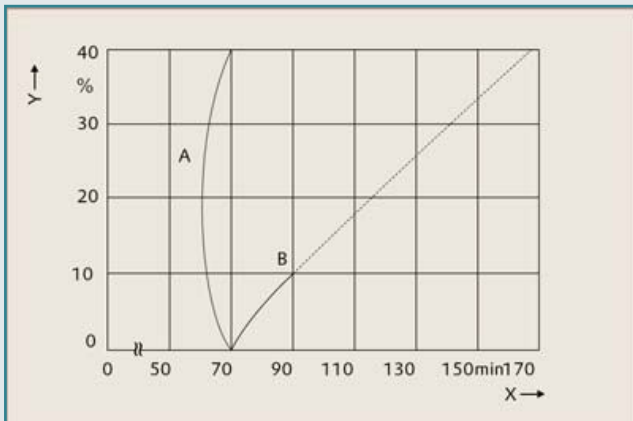


Viscosity of ACRIFIX® 2R 0190

X = Thinner concentration

Y = Viscosity

Z = Time/6mm cup



Influence of thinner concentration on polymerization time of ACRIFIX® 2R 0190 + 3% ACRIFIX® CA 0020 (on diluted adhesive)

Limitation of Liability

Our ACRIFIX® adhesives and other auxiliary agents were developed exclusively for use with our ACRYLITE® acrylic sheet products and are specially adjusted to the properties of these materials. Any recommendations and guidelines for workshop practice, therefore, refer exclusively to these products.

Seller's liability shall be limited to the purchase price of the product supplied (or to have been supplied) here-under in respect of which damages are claimed. All technical or other advice by seller, whether or not at buyer's request, with respect to the product, it's processing, further manufacture, other use or resale or otherwise, is given gratis by seller and seller shall not be liable for, and buyer assumes all risk of, such advice and the results thereof. SELLER SHALL IN NO EVENT BE LIABLE FOR ANY INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL OR OTHER DAMAGES, AND REGARDLESS WHETHER THE CLAIM IS BASED ON WARRANTY, CONTRACT, TORT, STRICT LIABILITY, NEGLIGENCE OR OTHERWISE.

Upon satisfactory proof of claim by the buyer, and as buyer's exclusive remedy, the seller will, within a reasonable time, supply the buyer with a replacement product of the same or equivalent type, free of charge, freight prepaid or, at seller's option, refund the purchase price for the product upon return of the product or other delivered material, or the unused portion thereof. Buyer charges for replacements and returns for credit will not be allowed unless authorized by the seller in writing.

For further information on safety measures, the exclusion of health risks when handling adhesives and at their disposal, see our Safety Data Sheet.



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Semi-finished polymethyl methacrylate (PMMA) products from POLYVANTIS are sold on the European, Asian, African and Australian continents under the registered trademark PLEXIGLAS®, in the Americas under the registered trademark ACRYLITE®, both owned by Röhm GmbH, Darmstadt, or its affiliates.

Fire Precautions

ACRYLITE® sheet is a combustible thermoplastic. Precautions should be taken to protect this material from flames and high heat sources. ACRYLITE® sheet usually burns rapidly to completion if not extinguished. The products of combustion, if sufficient air is present, are carbon dioxide and water. However, in many fires sufficient air will not be available and toxic carbon monoxide will be formed, as it will when other common combustible materials are burned. We urge good judgement in the use of this versatile material and recommend that building codes be followed carefully to assure it is used properly.

Compatibility

Like other plastic materials, ACRYLITE® sheet is subject to crazing, cracking or discoloration if brought into contact with incompatible materials. These materials may include cleaners, polishes, adhesives, sealants, gasketing or packaging materials, cutting emulsions, etc. See the Tech Briefs in this series for more information, or contact your ACRYLITE® sheet Distributor for information on a specific product.

This information and all further technical advice is based on our present knowledge and experience. Such information or advice, whether given at Buyer's request or not, implies no liability or other legal responsibility on our part, including with regard to existing third-party intellectual property rights. In particular, no warranty, whether expressed or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technical progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products should be used.