

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.

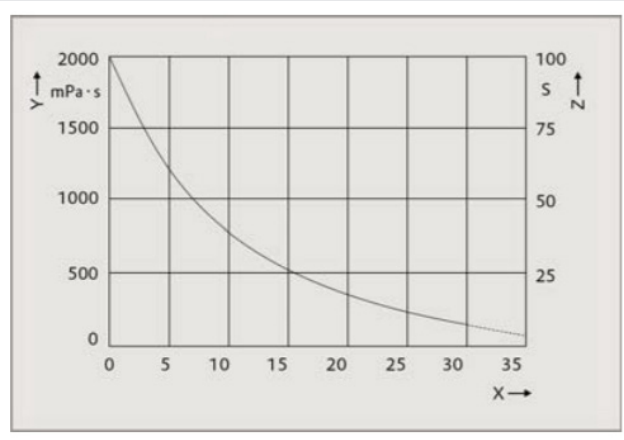
The viscosity required for a specific application must be determined by trial and error. In general, adhesives should be diluted as little as possible. The hardener concentration (e.g. ACRIFIX® CA 0020) depends on the quantity of diluted adhesive. The influence of the thinner on viscosity and polymerization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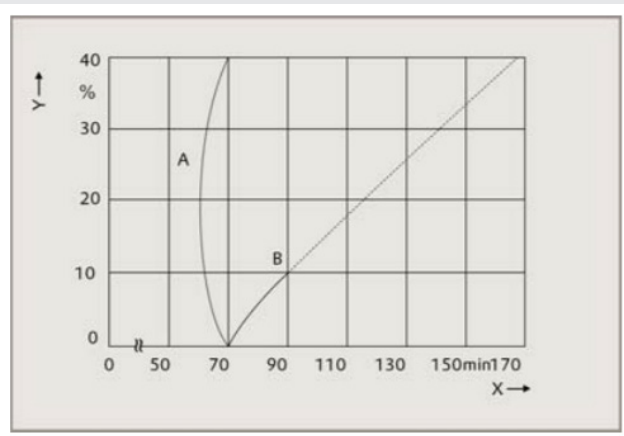


Viscosity of ACRIFIX® 2R 0190

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, its 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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