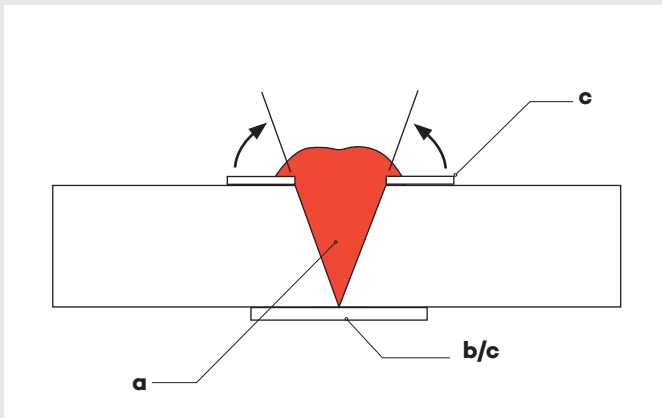




## ACRIFIX® 2R 0195 2-Component Polymerization Adhesive

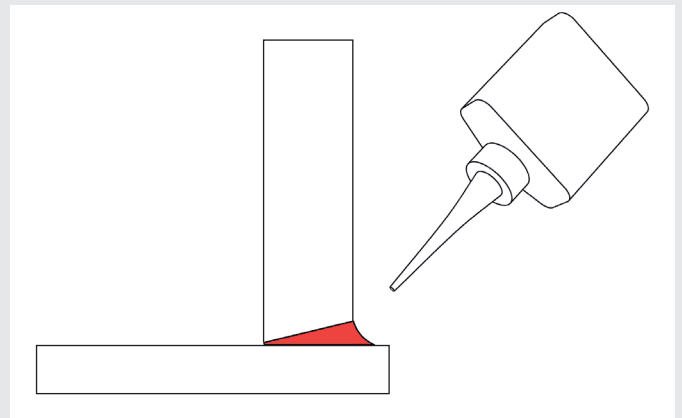


V-groove:

a = Adhesive

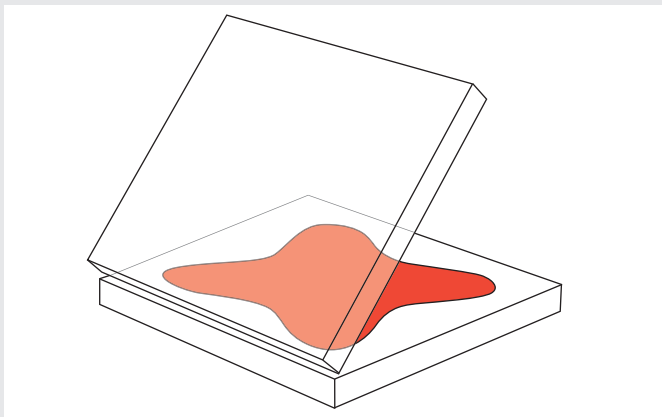
b = Adhesive tape with nonadhesive center strip

c = Adhesive polyester or cellulose tape



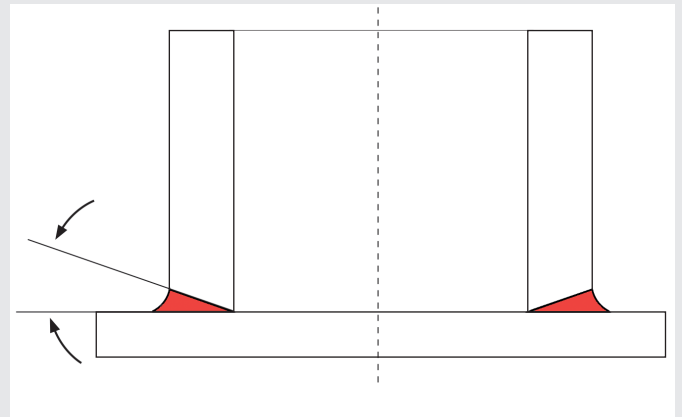
Angle joint:

Application of adhesive by PE glue dispenser



Area bonding:

Apply adhesive as a four-lobed dollop; fold down cover carefully from the edge.



Bonding a tube end

## Product and Use

### Type of Adhesive

2-Component polymerization adhesive.

Translucent, slightly purple, viscous (thixotropic) solution of an acrylic resin in methyl methacrylate, which polymerizes upon addition of ACRIFIX® CA 0020.

### Applications

Preferably used for bonding **matt surface** acrylic (PMMA), e.g. **PLEXIGLAS® Satinice SC and DC** with one another. Also suitable for other materials such as ABS, PC, PS, PVC-U, SAN or wood. For other materials, conduct prior tests. ACRIFIX® 2R 0195 is gap-filling. The cured adhesive joint have a matt appearance.

### Storage/Transport

Keep container tightly closed in a cool place.  
UN 1133.

### Working Instructions

#### Preparing the Parts to Be Bonded

Degrease the surfaces with ACRIFIX® TC 0030, isopropyl alcohol or petrol ether. Internally stressed parts must be annealed before bonding in order to avoid stress cracking. The annealing conditions depend on the type of material, the degree of forming and the thickness of the parts to be bonded. Parts made of extruded or injection molded acrylic should be annealed as a matter of principle. Typical annealing times (at 3mm material thickness) are 2 to 4 hours in an airflow oven at 70 to 80 °C – also for cast acrylic.

ACRIFIX® 2R 0195 must be stirred before use!

### Preparing the Adhesive

Mix ACRIFIX® 2R 0195 with max. 3 % ACRIFIX® CA 0020, avoiding entrapment as far as possible. In the covered container, any air bubbles may be allowed to rise to the surface of the adhesive, but they can also be removed in a vacuum desiccator (min. 200 mbar). As soon as the ACRIFIX® 2R 0195 mixture becomes thick and noticeably warm (end of pot life), it should be discarded.

### Bonding Technique

Fix the parts to be bonded in the desired position and apply suitable adhesive tape to seal the joint and to protect surrounding areas if necessary (see drawings). Introduce ACRIFIX® 2R 0195 into the joint either directly from the mixing vessel or by means of a glue dispenser or disposable syringe, avoiding air entrapment as far as possible.

### More Information

Roughening-up with water abrasive paper (grit 320 to 400) or non-woven improves the adhesion to untreated surfaces of cast acrylic (particularly block material).

To improve the joint annealing after joining is recommended. Typical annealing times are 2 to 4 hours in airflow oven at 70 to 80°C. Severely stressed bonds or those intended for outdoor exposure should be annealed as a matter of principle.

ACRIFIX® 2R 0195 must not get into closed cavities (e. g. double glazing, tube interiors), since the curing process is severely hampered at such sites, and there is a risk of stress cracking in the bonded parts. If cavity adhesion cannot be prevented, the cavity must be rinsed gently with air for at least 20 minutes. In case of tube adhesions it is also recommended to gently blow air through the tube during bonding.

ACRIFIX® 2R 0195 may be colored with ACRIFIX® CO 9073, CO W074, CO 3075, CO 5076, CO 1077, for example.

For more details see our Guideline "Joining, Ref. No. 311-3".

## Properties of Bonds

### Subsequent treatment of bonded items

- 3 to 6 hours after curing.

### Strenght of Bonds

The bonds only acquire their final strength after about 24 hours or after immediate annealing as soon as the adhesive has cured.

#### Tensile shear strength ( $v = 5 \text{ mm/min}$ )

| Material<br>(to itself)            | non-annealed | annealed<br>(5 hrs at 80 °C) |
|------------------------------------|--------------|------------------------------|
| PLEXIGLAS®<br>Satinice SC<br>or DC | 35 - 40 MPa  | 40 - 45 MPa                  |

Annealing increases the strength and also improves the weather resistance.

### Appearance of Bonds

The cured bonds show a fine matte surface. With increasing amounts of ACRIFIX® CA 0020 a yellowing of the bond is possible. Annealing temperatures > 70°C could also create yellowing. Without annealing it is likely that after a certain time yellowing or whitening due to micro cracks of the joint are possible.

## Limitation of Liability

Our ACRIFIX® adhesives and other service products were developed exclusively for use with our PLEXIGLAS® products and are specially adjusted to the properties of these materials. Any recommendations and guidelines for workshop practice therefore refer exclusively to these products.

Claims for damages, especially under product liability laws, are ruled out if made in connection with the use of products from other manufacturers.

## Safety Measures and Health Protection

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

Availability according to the current sales range

| Typical values                                                               |                                            |
|------------------------------------------------------------------------------|--------------------------------------------|
| Properties                                                                   | Values                                     |
| Viscosity                                                                    | thixotropic (pourable)                     |
| Density (20 °C)                                                              | ~ 1.02 g/cm <sup>3</sup>                   |
| Refractive index n <sub>D</sub> <sup>20</sup>                                | ~ 1.44                                     |
| Color                                                                        | translucent, slightly purple               |
| Flash point; DIN 53213                                                       | ~ 10 °C                                    |
| Solids content                                                               | ~ 29 %                                     |
| Storage stability                                                            | 2 years after filling, if correctly stored |
| Storage temperature                                                          | max. 30°C                                  |
| Packaging materials                                                          | Colored glass and aluminum                 |
| Thinner                                                                      | max. 10% ACRIFIX® TC 0030                  |
| Curing / pot life<br>(at 200 g adhesive, 20 °C) with<br>3 % ACRIFIX® CA 0020 | ~ 60 min. / ~ 20 min.                      |
| Cleaning agents<br>for equipment                                             | ACRIFIX® TC 0030 or ethyl acetate          |

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**www.roehm.com**

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