

PRODUCT DATA SHEET

# SikaBiresin® AP771 (Formerly APF-77/1 R)

Lightweight, Flame Retardant Polyester Filler

**TYPICAL PHYSICAL PROPERTIES (FOR FURTHER VALUES SEE SAFETY DATA SHEET)**

Properties	SikaBiresin® AP771 (A) Resin	Cream Hardener (B)
Composition	Polyester	Benzoyl peroxide
Mix ratio by weight	100	2
Aspect	Thixotropic paste	Liquid paste
Color	Off-white	White, black, red
Color (mixed)	Various	
Density at 77°F (25°C) (mixed)	8.7 lbs./gal (1.04 g/cc)	
Pot life (100g) at 77°F (25°C)	8.0 – 13.0 Minutes	

**DESCRIPTION**

SikaBiresin® AP771 is a lightweight, flame retardant, polyester-based, industrial filler paste. It is specifically formulated for filling, fairing, and repair applications. . In its mixed, uncured state, SikaBiresin® AP771 has a smooth, creamy consistency that enables the user to make quick repairs with minimal air entrapment. SikaBiresin® AP771 meets FAR 25.853(a) flame test requirements for aircraft interiors and other areas where flame retardant properties are required.

**PRODUCT BENEFITS**

- Flame retardant, self-extinguishing
- Excellent adhesion to a wide range of substrates
- Fast setting
- Minimal shrinkage

**AREAS OF APPLICATION**

SikaBiresin® AP771 makes an excellent repair and adhesive compound for honeycomb panels and other substrates. It is also recommended for finishing surfaces on composite panels in aircraft and transportation applications.

Tests with actual materials and conditions have to be performed to ensure satisfactory performance.

## TYPICAL MECHANICAL AND THERMAL PROPERTIES

Properties, Test Method	Mixed with SikaBiresin® AP771 (A) Resin	
	Cream Hardener (B) <sup>A</sup>	Cream Hardener (B) <sup>B</sup>
Hardness, Shore D ASTM D2240	80	80
Flexural strength, ASTM D790	1,300 psi (8.9 Mpa)	1,400 (10 Mpa)
Tensile strength, ASTM D638	1,000 psi (6.9 Mpa)	1,000 psi (6.9 Mpa)
Tensile elongation, ASTM D638	0.5 %	0.4%
Compressive Strength, ASTM D695	3,500 psi (24 Mpa)	3,200 (22 Mpa)
Glass transition temperature Tg (TMA), ASTM E1545	119 (48)	392 (200)

<sup>A</sup> Cured 7 days at 77°F (25°C).

<sup>B</sup> Cured 7 days at 77°F (25°C) + 16 hours at 140°F (60°C).

### PROCESSING

#### Surface Preparation and Application

To ensure optimal adhesion, the area to be filled or repaired should be thoroughly cleaned, sanded/roughened, re-cleaned, and allowed to dry prior to application.

#### Mixing Instructions

Stir contents of resin can thoroughly using a spatula or putty knife. Place the required amount of filler and cream hardener on a disposable clean surface. Mix 100 parts paste to 2 parts cream hardener by weight.

#### Application

The mixed SikaBiresin® AP771 should be applied and worked into the area, taking caution to avoid air entrapment. After curing to a tack-free state, the material can be sanded and finished as needed.

Normal health and safety precautions should be observed when handling these products:

- Ensure adequate ventilation
  - Wear gloves, glasses, and protective clothes
- For further information, please consult the Safety Data Sheets

#### STORAGE CONDITIONS

Product shelf life of SikaBiresin® AP771 (A) is 12 months when stored in original unopened containers between 65 – 77°F (15 – 25°C). Shelf life of Cream Hardener (B) is 18 months when stored in original unopened containers between 65 – 77°F (15 – 25°C).

Keep containers tightly closed. Polyester resin contains filler which has the potential to separate in time, please re-homogenize prior to use.

#### PACKAGING INFORMATION

Packaging information is available upon request. Please contact your local Sika sales representative.

#### FURTHER INFORMATION

Advice on specific applications will be given on request. To contact Sika Corporation's Industry Technical Services Department, send an email to [tsmh@us.sika.com](mailto:tsmh@us.sika.com). Copies of Safety Data Sheets and Product Data Sheets are available upon request.

#### BASIS OF PRODUCT DATA

All technical data stated in this document are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

#### ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 3-527-3887.

### LEGAL DISCLAIMER

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by contacting SIKA's Technical Service Department via email at [tsmh@us.sika.com](mailto:tsmh@us.sika.com). Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product. SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.** Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling +1 800-933-7452.