

PRODUCT DATA SHEET

SikaBiresin® CR88 (Formerly EPOLAM 2015)

Unfilled Epoxy Laminating System for Room Temperature Applications

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

Properties	SikaBiresin® CR88 (A) Resin	SikaBiresin® CH88-6 (B) Hardener
Composition	Epoxy	Amine
Mix ratio – by weight	100	32
Mix ratio – by volume	100	38
Aspect	Liquid	Liquid
Color	Yellow	Blue
Color (mixed)	Green translucent	
Viscosity – Brookfield (mixed)	550 cps	
Specific gravity at 77°F (25°C) (mixed)	8.98 lbs./gal (1.08 g/cc)	
Gel time (150 g) at 77°F (25°C)	140 Minutes	

DESCRIPTION

SikaBiresin® CR88 is an unfilled epoxy laminating system designed for use in the production of composite structures by wet lay-up or infusion methods. SikaBiresin® CR88 is also well suited for wood impregnation and is approved per Lloyd’s registration.

PRODUCT BENEFITS

- High mechanical properties
- Low mixed viscosity for good wet out
- Colored resin and hardener for mix indication
- Meets Lloyds register requirements for shipbuilding

AREAS OF APPLICATION

Typical applications include the production of high performance composite tools or parts for the marine and other industries. Suitable for wet-layup or infusion processing, along with vacuum bagging and RTM processes.

TYPICAL MECHANICAL AND THERMAL PROPERTIES

Properties, Test Method	Mixed with SikaBiresin® CR88 (A) Resin	
	SikaBiresin® CH88-6 (B) Hardener ^A	SikaBiresin® CH88-6 (B) Hardener ^B
Shore D hardness, ASTM D2240	85	90
Flexural strength, ASTM D790	9,550 psi (66 MPa)	15,692 psi (108 MPa)
Flexural modulus, ASTM D790	528,286 psi (2,857 MPa)	425,751 psi (2,938 MPa)
Tensile strength, ASTM D638	5,254 psi (36 MPa)	8,703 psi (60 MPa)
Tensile modulus, ASTM D638	342,781 psi (2,365 MPa)	269,826 psi (1,862 MPa)
Tensile elongation, ASTM D638	1.7%	4.0%
Glass Transition Temperature (Tg), ASTM E1545	124°F (51°C)	202°F (94°C)

^(A) Cured 24 hours at 77°F (25°C)

^(B) Cured 24 hours at 77°F (25°C) + 4 hour at 212°F (100°C)

PROCESSING

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

Shelf life of resin and hardeners is 12 months when stored in original, unopened containers between 65-77°F (15 - 25°C). Keep containers tightly closed.

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. 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 703-527-3887.

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 or by contacting SIKA's Technical Service Department via email at 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

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