# **Chockfast®**



# PHILLYCLAD 1775/620TS - LOW-VISCOSITY LAMINATING & INJECTION RESIN SYSTEM

TECHNICAL DATA SHEET #950 VERSION: C

#### PRODUCT DESCRIPTION

PHILLYCLAD 1775/620TS is an excellent general purpose, nontoxic resin system for applications requiring low-viscosity solutions as well as rapid and thorough wet out. In addition to being used commonly as a laminating resin with FRP applications, it is also excellent for use as a thin laminate protective coating over steel or wood and fabrication of molded fiberglass structures or components.

In addition, the PHILLYCLAD 1775/620 TS, formerly known as Concrete Adhesive, is designed for pressure injection repairs to concrete and adhesion of new concrete to old concrete.

#### **USE & BENEFITS**

Use PHILLYCLAD 1775/620TS to repair cracks in equipment foundations before grouting or to improve the bond between old concrete and new concrete.

## MIXING & APPLICATION INSTRUCTIONS

Please refer to the appropriate safety data sheet (SDS) prior to using this product.

PHILLYCLAD 1775/620TS is supplied in pre-measured,

one-gallon units. Mixing is accomplished by pouring the Hardener component into the slack filled Resin can and mixing until homogeneous. The use of a variable speed power mixer with a Jiffy mixer blade is recommended.

When using PHILLYCLAD 1775/620TS between new and old concrete, pour new concrete within 3 hours of application of PHILLYCLAD 1775/620TS while the adhesive is still wet to the touch.

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Please see Technical Guide 970 for detailed information on the usage of Phillyclad 1775/620TS as a component of properly applied glass-reinforced epoxy laminate for propeller shafting or other metal surfaces exposed to severe marine environments, including MIL-STD-2199.

Please contact your local representative of our Worldwide Distributor Network or ITW Performance Polymers for any questions or support.

# STORAGE RECOMMENDATIONS

All product components should be stored in a dry, shaded area in original unopened containers and within a temperature range of 65°- 95°F (16° - 35°C). For additional information, please refer to Technical Guide 1024.



#### **PHYSICAL PROPERTIES**

FLEXURAL STRENGTH	5,200 psi (323 kg/cm²)	ASTM D790
FLEXURAL MODULUS OF ELASTICITY	1.15 x 105 psi (80870 kg/cm²)	ASTM C790
ELONGATION	30%	ASTM D638
TENSILE STRENGTH	4,050 psi (285 kg/cm²)	ASTM D638
HARDNESS - BARCOL	62 @ 72°F (22°C) - 24 hours 78 @ 72°F (22°C) - 48 hours	
SPECIFIC GRAVITY	1.08	
VISCOSITY @ 72°F (22°C)	1,800 to 2,000 cps	

The data shown reflect typical results based on laboratory testing under controlled conditions. Variations from the above data are typical for field-prepared samples.

## **PRODUCT INFORMATION**

RODUCT IN ORMATION		
UNIT COVERAGE	230 in <sup>3</sup> (3769 cm <sup>3</sup> )	
TYPICAL APPLICATION TEMPERATURES	55°F to 95°F (13°C to 35°C)	
INITIAL CURE TIME (APPROXIMATE, BASED ON CONTACT SURFACE TEMPERATURES)	72°F (22°C) - 36 hrs.	
	80°F (27°C) - 24 hrs.	
POT LIFE (APPROXIMATE)	40 Minutes @ 72°F (22°C)	
MIXING RATIO	4:3 by Volume 4.67:3 by Weight	
PACKAGING PER UNIT	RESIN (A): 0.56 gal (2.1 L) in a 1 gal can HARDENER (B): 0.45 gal (1.7 L) in a $1/2$ gal can	
COMPONENT WEIGHTS	RESIN (A): 5.6 lbs (2.5 kg) HARDENER (B): 3.6 lbs (1.6 kg)	
UNIT SHIPPING WEIGHT	10.5 lbs (4.8 kg)	
COLOR	MIXED (A + B): Amber	
CLEAN UP	IMPAX IXT-59, or similar epoxy solvent	
SHELF LIFE	2 years in dry storage	
CHEMICAL RESISTANCE	Refer to Technical Guide 675	

## **REFERENCE**

For any additional recommendations or applications beyond the typical ones listed in this document, please contact your local representative of our Worldwide Distributor Network or ITW Performance Polymers for further support.

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