

# CRYSTIC BP 90-84PA

## Lightweight Bonding Paste

### Introduction

Crystic BP 90-84PA is a lightweight, low exotherm, pre-accelerated orthophthalic polyester bonding paste. It is a non-sagging compound, designed for non-structural applications where gap filling may be a secondary requirement.

### Features and Benefits

Highly thixotropic	No sagging on vertical surfaces
Low specific gravity	Weight saving
Colour change system	Visual check for effective catalyst mix (blue to cream)
Good handling	Ease of application

### Physical Data – Uncured

Property	Unit	Liquid Bonding Paste
Appearance		Blue Paste
Viscosity at 25°C <sup>1</sup>	cP	650,000
Stability at 20°C <sup>2</sup>	Months	3
Specific Gravity		0.6
Geltime/Working Time* at 20°C <sup>3</sup>	Minutes	38
Geltime/Working Time* at 25°C <sup>3</sup>	Minutes	30

1. Measured using Brookfield Viscometer at 25°C.
  2. Stability defined from date of dispatch when left un-opened in the original containers and out of direct sunlight.
  3. Geltime measured with 100g mass of adhesive and 2% Butanox M50.
- \*2% Butanox M50 (or equivalent catalyst)

### Physical Data – Cured

Property	Unit	Fully Cured†	Test Method
Appearance		Cream	
Hardness (Shore D)		61	BS EN ISO 868:2003
Tensile Strength	MPa	12	BS EN ISO 527-2:1996
Tensile Modulus	MPa	620	BS EN ISO 527-2:1996
Elongation at Break	%	6	BS EN ISO 527-2:1996
Single Lap-Shear Strength	MPa	8.2	BS ISO 4587:2003

† Curing Schedule - 24 hrs at 20°C, 16 hrs at 40°C

### Substrates

Crystic BP 90-84PA can be used on surfaces other than GRP such as timber and plasterboard. However, it is recommended that trials are carried out to ensure that adequate bond strength is obtained.

### **Surface Preparation**

Surfaces to be bonded should be clean, dry and free from any contamination. It may be necessary to abrade the surfaces to be bonded in order to obtain the bond strength required. Each surface should be coated with the catalysed bonding paste and held together until the paste has cured.

### **Application**

Crystic BP 90-84PA is supplied pre-accelerated. The required hardener is Butanox M50 (or other equivalent MEKP catalyst). The catalyst is added at 2% w/v. Crystic BP 90-84PA can be applied with a spatula or from a dispensing unit, taking care to keep air entrapment to a minimum. Application should always be carried out at temperatures above 15°C. Recommended temperature range for application is between 18 and 25°C.

### **Additives**

Crystic BP 90-84PA is supplied ready to use. The addition of pigment or other materials can adversely affect the degree of cure and bond strength obtained.

### **Storage**

Crystic BP 90-84PA should be stored out of direct sunlight in the original container. It is recommended that the storage temperature should be between 15 and 20°C. Ideally, containers should be opened only immediately prior to use. Products should never be frozen.

### **Packaging**

Crystic BP 90-84PA is supplied in 15Kg containers.

### **Health & Safety**

Please see separate Material Safety Data Sheets.

Version 3 : February 2013

All information on this data sheet is based on laboratory testing and is not intended for design purposes. Scott Bader makes no representations or warranties of any kind concerning this data. Due to variance of storage, handling and application of these materials, Scott Bader cannot accept liability for results obtained. The manufacture of materials is the subject of granted patents and patent applications; freedom to operate patented processes is not implied by this publication.

### **SCOTT BADER COMPANY LIMITED**

Wollaston, Wellingborough, Northamptonshire, NN29 7RL

Telephone: +44 (0) 1933 663100

Facsimile: +44 (0) 1933 666623

[www.scottbader.com](http://www.scottbader.com)