

# CrysticROOF

## PU ADHESIVE & SEALANT

## TECHNICAL DATA SHEET



### INTRODUCTION

CrysticROOF PU Adhesive & Sealant is a novel low modulus expansion joint sealant, especially formulated to ensure bubble free cure even at very high temperature and humidity climatic conditions. The product displays excellent thixotropy allowing its use even in very large expansion joints.

CrysticROOF PU Adhesive & Sealant is for **professional use only**. It should only be used by appropriately trained professional and industrial users.

### PRODUCT CHARACTERISTICS

CrysticROOF PU Adhesive & Sealant cures by reaction with atmospheric humidity to produce a joint sealant with a 50% joint movement accommodation factor and excellent adhesion on substrates traditionally problematic for PU sealants, e.g. glass, aluminum, steel, polycarbonate, etc. The extrusion rate and tooling of the sealant remain the same throughout a very wide range of temperature and humidity conditions.

### FEATURES AND BENEFITS

- No bubbling/swelling upon curing in difficult climatic conditions.
- Excellent thixotropy
- Excellent adhesion on almost any type of surface, with or without the use of special primers.
- Excellent extrusion, tooling and storage stability over wide range of climatic conditions.
- Excellent chemical resistance, suitable for sealing joints in swimming pools and chemically treated water.
- Low modulus, joint movement accommodation 50%.
- Microorganism and fungus resistant.
- Excellent heat resistance, suitable for application where exposure to temperatures >60°C take place.
- Resistance to cold: The sealant remains elastic even down to -40°C.

### TYPICAL PROPERTIES

Property	Unit	Typical Values
Density at 20°C	g/cm <sup>3</sup>	1.45
Tack Free Time at 25°C & 55% RH	hours	2.5 - 3.5
Cure Rate	mm/day	2 - 3
Service Temperature	°C	-40 - 80
Hardness	Shore A	27
Modulus at 100% Elongation	(N/mm <sup>2</sup> )	0.3
Elongation	%	>700
QUV Accelerated Weathering Test (4hr UV, at 60°C UVB-Lamps & 4hr condensation at 50°C)	-	Passed (after 2000hr)
Thermal Resistance (100 days, 80°C)	-	Passed
Hydrolysis (8% KOH, 15 days at 50°C)	-	No elastomeric property change
Hydrolysis (H <sub>2</sub> O, 30 days- cycle 60-100°C)	-	No elastomeric property change
HCl (pH=2, 10 days at RT)	-	No elastomeric property change
Adhesion to concrete	kg/cm <sup>2</sup> (N/mm <sup>2</sup> )	> 20 (> 2)

# CrysticROOF

## PU ADHESIVE & SEALANT

## TECHNICAL DATA SHEET



### STORAGE AND SHELF LIFE

CrysticROOF PU Adhesive & Sealant should be stored between 5°C and 25°C in the original, unopened packaging in a dry, well ventilated place. Protect from freezing and direct sunlight. Once opened, use as soon as possible.

Stability from date of manufacture when stored in accordance with storage recommendations is 6 months.

Once opened, use as soon as possible.

### PACKAGING

CrysticROOF PU Adhesive & Sealant is supplied in 600ml sausages.

### HEALTH AND SAFETY

Please see separate Safety Data Sheet (SDS).

CrysticROOF PU Adhesive & Sealant is for **professional use only**. It should only be used by appropriately trained professional and industrial users.



© 2020 Scott Bader Company Ltd. August 2020

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 Ltd.

Wollaston, Wellingborough,  
Northamptonshire, NN29 7RL

Tel: +44 (0)1933 663100

Email: [enquiries@scottbader.com](mailto:enquiries@scottbader.com)