

Probuild SB

Solvent free, two part epoxy adhesive (formerly known as Aylabond SB)



DESCRIPTION

Probuild SB is a fast set, solvent-free two-component epoxy adhesive specially designed to provide exceptional bond strength on concrete, steel and asphalt surfaces.

Probuild SB is supplied in two parts of white and black colour that when mixed together in 1:1 ratio produce a uniform grey colour paste that can be used for fixing traffic markers and roads studs and as a general-purposes epoxy adhesive.

APPLICATIONS

Probuild SB is a fast set, high strength adhesive primarily designed to fix traffic markers and road studs. It can be used as a general purpose fast set epoxy paste for filling gaps, holes and surface irregularities, and for bonding of steel elements, natural stone, and polyethylene elements.

ADVANTAGES

- » Fast set.
- » Easy to use.
- » Rapid adhesive strength development.
- » High tensile and shear strength.
- » 1:1 mixing ratio, making mixing easy and minimizing waste.

STANDARDS

Probuild SB complies with AASHTO M 237-96 (2014): Standard Specification for Epoxy Resin Adhesives for Bonding Traffic Markers to Hardened Portland Cement and Asphalt Concrete, as Type 2 adhesive for the requirements of bond strength, slant shear and gel time.

METHOD OF USE

SURFACE PREPARATION

All substrate surfaces should be clean and free from dust, loose material and contamination. Ceramic road studs or markers which are supplied with either resin rich, waxy or greasy finishes should be abraded before use.

MIXING

One part of component A should be mixed with one part of component B (by weight). To avoid waste only mix sufficient quantities that can be used within the pot life.

Components should be scooped from the tins and mixed together thoroughly using a spatula or palette knife in a suitable tin or board, until a uniform grey paste is obtained.

TECHNICAL PROPERTIES @ 25°C:

Specific gravity:	
Part A	1.40 ± 0.10
Part B	1.50 ± 0.10
Mixed material	1.45 ± 0.10
Gel time:	6 - 10 min
AASHTO T 237-22	
Bond strength to concrete:	Pass
AASHTO T 237-22	(max time 240 min to reach 1380 KPa)
Slant shear strength:	≥ 13970 KPa
AASHTO T 237-22	
Bond strength @ 3 hr:	Greater than substrate tensile strength* (to concrete & asphalt substrate)
Water absorption:	≤ 0.1%
ASTM D570-98	
VOC:	< 20 g/ltr
ASTM D2369	(comply with LEED)

** Actual results depend on the mechanical characteristics of concrete and asphalt substrates.*

APPLICATION

Apply the mixed adhesive to the area to be covered by the marker then press the marker into place so as to squeeze out a small bead of adhesive around the entire periphery of the marker. Markers should not be fixed until at least two weeks has elapsed from the time of laying asphalt, unless written approval is given by the engineer.

CLEANING

All tools should be cleaned immediately after finishing by DCP solvent. Hardened material should be removed mechanically.

PACKAGING

Probuild SB is available in 10 kg pack (5 kg base and 5 kg hardener) and 40 kg pack (20 kg base and 20 kg hardener).





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THEORETICAL COVERAGE

Probuild SB: 15 - 30 ml/stud.

SETTING TIME

Temperatuer (°C)	Setting time* (minutes)	Pot life (minutes)
6	150 - 170	65 - 90
12	110 - 130	45 - 70
16	75 - 90	35 - 60
20	35 - 60	20 - 30
25	20 - 30	6 - 10
30	7 - 15	4 - 8

* Maximum time interval at which the position of the traffic marker or studs can be slightly adjusted and move after installation.

Setting time and pot life will vary depending on temperature and size of the mix; extending at lower temperatures and smaller thickness of application. Pot life and set time are given in the table above were determined using a 200 g mix.

At temperatures above 25°C the material workability increases as does the rate of strength development. At temperatures lower than 25°C the material workability decreases and strength development slows.

STORAGE

Probuild SB has a shelf life of 12 months from date of manufacture if stored in a dry store at temperatures between 5°C and 30°C in original unopened packaging.

If these conditions are exceeded, contact DCP Technical Department for advice.

CAUTIONS

HEALTH AND SAFETY

Gloves and a barrier cream should be used when handling these products.

If contact with the skin occurs, it must be removed, before setting, by washing with soap and warm water. Do not use solvent.

The use of goggles is recommended. Should accidental eye contamination occur, wash thoroughly with plenty of water and seek medical treatment immediately.

Ensure good ventilation and do not smoke during use.

For further information refer to the Material Safety Data Sheet.

FIRE

Probuild SB is nonflammable.

DCP solvent is flammable. Ensure adequate ventilation and do not use near naked flame.

Flash Point:

DCP solvent: 37°C.

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Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.

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