

Quickmast SB

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



Description

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

Quickmast 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

Quickmast 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

Quickmast SB complies with AASHTO M235-91, Type I, II, IV and V, Class B and C for bond strength requirement by slant shear.

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 to one part of component B. To avoid waste only mix sufficient quantities that can be used within the pot life.

Technical Properties @ 25°C:

Bond strength to 25 MPa grade concrete @ 3 hr:	≥ 2 MPa (concrete failure)*
Bond strength to asphalt @ 3 hr:	≥ 2 MPa (asphalt failure)*
Specific gravity:	
Part A	1.45 ± 0.10
Part B	1.60 ± 0.10
Mixed material	1.50 ± 0.10
Slant shear bond strength: AASHTO T-237-73	≥ 45 MPa @ 7 days
Water absorption: ASTM D570-98	≤ 0.1%
Pot life: AASHTO T-237-73	10 ± 3 min
VOC: ASTM D2369	< 20 g/ltr (complies with LEED)

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

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.

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.



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Packaging

Quickmast 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).

Theoretical Coverage

Quickmast SB: 15 - 30 ml/stud.

Setting Time

Temperaturer (°C)	Setting time* (minutes)	Pot life (minutes)
6	160 - 170	70 - 90
12	120 - 130	50 - 70
16	80 - 90	40 - 60
20	40 - 60	25 - 30
25	25 - 30	10 - 15
30	10 - 18	8 - 11

** 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

Quickmast 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

Quickmast 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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- ▲ Structural strengthening.

Note:

We endeavor to ensure that any advice, recommendation or information we may give in product literature is accurate and correct. However, due to the fact that we have no direct or continuous control over where or how the products are applied, DCP cannot accept any liability either directly or indirectly arising from the use of DCP products, whether or not in accordance with any advice, specification, recommendation or information given by us.

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