

Quickmast GPS

Solvent free general purpose epoxy adhesive



Description

Quickmast GPS is a multi-purpose, two components, moisture tolerant, non-sag, solvent free epoxy resin adhesive.

Applications

Quickmast GPS is used for high strength fast set bonding adhesive for different material such as:

- ▲ Concrete metals, and wood.
- ▲ Timber joints and ceramics.
- ▲ Fixing laminates/veneers.
- ▲ Extruded polystyrene boards.
- ▲ Closed cell Polyethylene boards.
- ▲ PVC tiles.
- ▲ Permanent installation of reinforcement starter bars and dowel bars.
- ▲ Rubber.

Advantages

- ▲ Fast set.
- ▲ High bond strength.
- ▲ Bonds to most common building materials.
- ▲ Unaffected by water immersion.
- ▲ Easy application. (1:1 mixing ratio).
- ▲ High tensile and shear strength.

Standards

Quickmast GPS complies with AASHTO M237, Type II, slant shear bond strength and gel time and ASTM C881, Type I, II, IV, V, Grade 3, Class C.

Method of Use

Surface Preparation

- ▲ All Substrate should be sound and dust free.
- ▲ Concrete surfaces should be dry and free of any laitance.
- ▲ Metals, steel, copper, brass etc. surfaces should be degreased/abraded.
- ▲ Glass and ceramics should be degreased and abraded.
- ▲ Rubber surface should be treated for 4 minutes with sulphuric or nitric acid or abraded.
- ▲ Timber should be dry abraded.

Technical Properties @ 25°C:

Colour of the mixed material:	Dark grey
Pot life:	10 – 15 min
Bond strength: ASTM C882-99 (hard concrete to hard concrete @ 15°C)	> 9 MPa @ 2 days (moist cure) > 11 MPa @ 14 days (moist cure)
Bond strength: ASTM C882-99 (fresh concrete over hard concrete @ 25°C)	> 11 MPa @ 14 days (moist cure)
Mixed specific gravity:	≈ 1.5 ± 0.05
Compressive strength: ASTM D695-96	≥ 75 MPa @ 7 days
Compressive modulus: ASTM D695-96	≥ 1400 MPa @ 7 days
Slant shear bond strength: AASHTO T-237-73	> 30 MPa
Water absorption: ASTM D570-98	≤ 0.2%
Heat deflection: ASTM D648 @ 0.455 MPa	≥ 50°C

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. 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.

Cleaning

All tools should be cleaned immediately before the adhesive reaches initial setting using Quickmast solvent.

Packaging

Quickmast GPS part A is available in 1, 5 kg packs and 5 gallon pails.

Quickmast GPS

Quickmast GPS part B is available in 1, 5 kg packs and 5 gallon pails.

Coverage

1.5 kg/m² @ 1 mm thick.

Note:

Quickmast GPS setting time and pot life will vary depending on temperature and size of mix; extending at lower temperatures and smaller thicknesses of application.

Storage

Quickmast GPS has a shelf life of 12 months from date of manufacture if stored in a dry store in original unopened packaging.

If these conditions are exceeded, DCP Technical Department should be contacted 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 GPS is nonflammable.

More from Don Construction Products

A wide range of construction chemical products are manufactured by DCP which include:

- ▲ Concrete admixtures.
- ▲ Surface treatments
- ▲ Grouts and anchors.
- ▲ Concrete repair.
- ▲ Flooring systems.
- ▲ Protective coatings.
- ▲ Sealants.
- ▲ Waterproofing.
- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
- ▲ Building products.
- ▲ Structural strengthening.

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.