

DURA BUILD CARE PVT. LTD.



AN ISO 9001 : 2008 COMPANY

“Quality, Integrity Assured.”

DURAXY SBA

Thixotropic Epoxy Resin Adhesive for Segmental Bridge Construction

Description :

DURAXY SBA is a solventless thixotropic two-pack system adhesive based on specially selected epoxy resin and accelerator yielding high strength material. It is available in three grades: Rapid, Normal and Long Pot life. **DURAXY SBA** in pasty or thixotropic consistency finds an easy application as structural adhesive.

Uses :

DURAXY SBA is most suitable for use in the assembly of pre-stressed concrete segmental units and segmental bridge construction i.e. bridge segment bonding. It also finds application in crack and surface sealing, blow hole filling, concrete repairs and thin film bonding.

Features :

- Pack A, off white and Pack B, transparent liquid colour of mixed material is uniform off white.
- Non-sag.
- Suitable for use on dry and damp surfaces.
- No shrinkage after hardening.
- High early strength according to the grade used.
- Superb adhesion on concrete and many other substrates.
- High abrasion resistance.
- High quality product under rigid quality control system.

Application :

All surfaces should be clean, free from stagnant water, cement laitance and loosely adhering particles. **NO PRIMER IS REQUIRED.** Mix Pack B (transparent liquid) into Pack A (off white) for at least three minutes with a mixing paddle attached to a slow speed electric drill (max. RMP 600) till uniform off white colour results. Mixed material is used by trowel or spatula over the surface. Material should be well rubbed over the application surface. Maximum thickness in one horizontal layer may be up to 30 mm and over vertical surface it may be up to 10 mm.

Technical data :

Colour : Pack A off white, Pack B transparent mixed (A+B) off white
Mixing ratio : Pack A : Pack B :: 970 : 30 by wt.
Density of mixture : 1600 kg/m³ consumption per 1 mm thickness/m² : 1.6 kg. (approx.).

Pot Life for 1 kg. mix

<u>Temp ° C</u>	<u>Rapid</u>	<u>Normal</u>	<u>Long Pot Life</u>
40° C	15/20 mins.	30/40 mins.	30/40 mins.
30° C	30/40 mins.	60 mins.	60 mins.
20° C	60/70 mins.	80/90 mins.	90 mins.
10° C	120 mins.	180 mins.	–
5° C			

Compressive strength, kg/cm² : 700 to 800 at 2 days full cure at 30° C.

Flexural strength, kg/cm² : 250 to 300

Tensile strength, kg/cm² : 150 to 180

Bond strength, kg/cm²

To concrete : 35 to 40 (concrete fails)

To steel : 150 to 200

Young's modulus kg/cm² : 85000 (value at 30° C, 65% RH & 10 days cure)

Shelf life : 12 months in unopened packing

Storage : Store it under a cool place

Packaging : 1 kg & 4 kg with Pack A & Pack B

Health & safety : Resinous material. Inflammable. No naked flame. Use hand gloves while using it.



IMPORTANT: Though the product may change with some code as suffix or addendum to the principal or original name out of some minor adjustment and fine tuning in the formulation due to our continuous research and development but shall exhibit the stated properties with more improvement.

WARRANTY: Our high potency products are manufactured under stringent National/International Quality Standard specifications and guaranteed against any manufacturing defect. Suggestions and recommendations are made here based on our most practical experience and exposure over 25 years in the field and are believed to be most appropriate and correct BUT no liability can be accepted by us, as the conditions of use of such products are beyond our control.

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