

DIAMOND PAINT MFG. CO. LTD
TECHNICAL DATA
SURE-BOND
CONCRETE BONDING AGENT

PRODUCT DESCRIPTION

SURE-BOND is a concentrated latex PVAC emulsion admixture and bonding agent for concrete.

FEATURE:

Can be used with all types of cement including rapid hardening refractory and aluminous cements.

BASIC USE:

for bonding new concrete to old concrete floors, side-walks or other types of concrete surfaces.

LIMITATIONS:

SURE-BOND is **not** recommended for:

- a) Storage or application when temperatures and substrates are below 7°C
- b) Application over asphalt or blacktop surfaces.
- c) Use with anti-freeze agents and accelerators.
- d) Use in constant immersion conditions.

STORAGE AND SHELF LIFE:

Minimum two years, stored in a cool place. **SURE-BOND** must be protected from freezing in warehouse, in transit and on the job site. Discard any frozen material.

CURING TIME: Allow 72 hours before resuming traffic on applied surfaces

APPLICATION TEMPERATURE RANGE:

SURE-BOND should not be applied when temperatures and substrates are below 7°C. Aggregates should be the same temperature as the area to which toppings are being applied. Avoid drafts or direct heat on finished surfaces until completely cured.

APPLICATION

Surface Preparation:

The surface to be repaired must be thoroughly clean and sound, i.e. free from oil, grease, tar, chemical deposits and coatings, dirt and dust, loose particles, etc. Industrial floors, garages, etc., are best cleaned with steam cleaning equipment, where available. Muriatic acid is usually very effective against most non-fatty deposits, but oil, grease, and fats in general require a strong detergent. Residuals of tar emulsion, shellac, wax and other protective coatings should first be "cut" by proper solvent.

Any chemical cleaning (detergents, muriatic acid, etc.) must be followed by several rinsings with water. Black top or asphalt surfaces must be removed mechanically. New and otherwise clean surfaces do not require any particular cleaning.

APPLICATION:

Combine **SURE-BOND** and water at a ratio of 1 part **SURE-BOND** to 1 part water. Add 1 kg. Of Portland cement for every 2 litres of solution. Apply this bond coat solution with a broom, ensuring that solution does not form puddles in cracks and hollows. Mortar should be applied while this coating is still moist and tacky.

Prepare a dry mix of 1 part cement with 2 to 3 parts of clean sand. Wet this mixture with a solution of **SURE-BOND** and water (base on the ratio specified in the estimating data chart). Use only enough solution to make a stiff, workable consistency. Mix thoroughly to assure even dispersion. Place mortar over the tacky or damp coat promptly.

Level to the desired thickness with a screed tool. Float or steel trowel to the required finish, as you would ordinary concrete.

For feather edging, small patches, filling in cracks, or areas exposed to exceptionally heavy stress, the ratio of **SURE-BOND** in the mix should be increased, i.e. 1 part **SURE-BOND** to 1 part water.

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**LITRES OF SURE-BOND REQUIRED
PER M² OF AREA**

Thickness	Recommended Ratio SURE-BOND/WATER	Litres of Sure-bond required
3 mm	1 to 3	0.2 litres
6 mm	1 to 3	0.4 litres
12 mm	1 to 5	0.6 litres
20 mm	1 to 5	1.0 litres
25 mm	1 to 7	1.0 litres
50 mm	1 to 10	1.2 litres

CURING:

The surface should be kept moist with a covering of polyethylene film to prevent rapid drying but should not be wet cured. Do not use membrane curing compounds.

CLEAN-UP:

Clean all tools and equipment promptly with water.

PRECAUTIONS:

In case of spillage, flush off with plenty of water.

FIRST AID:

Upon accidental contact, rinse with copious amounts of water. Wash clothes. If swallowed, call a physician. Keep out of reach of children.

AVAILABILITY:

Diamond Paint **SURE-BOND** bonding agent and concrete admixture is marketed throughout Jamaica through distributors and building supply dealers. Dealer and distributor list available from Diamond Paint.

GUARANTEE:

Diamond Paint warrants that the product conforms to its chemical and physical description and is within bounds fit for the use stated on its technical data sheet when used in compliance with Diamond Paints written instructions.

Diamond Paint makes no other warranty either expressed or implied. The purchaser assumes all risks in handling.

All the information contained in this technical data sheet is to be used as a guide and is subject to change without notice. This technical data sheet supersedes all previous data sheets on this product.

TECHNICAL SERVICES:

For additional information, concerns about unique applications or specific projects, contact Diamond Paint Mfg. Co. Limited.

DIAMOND PAINT MFG. CO. LTD
67 WALTHAM PARK ROAD,
KINGSTON 11, JAMAICA W.I.

Tel: (876) 937-4951-2 Fax: (876) 9011964
e-mail: diamondpaints@cwjamaica.com