



# DIAMOND PAINT MFG. CO. LTD.

## TECHNICAL DATA

### DIAMOND-COTE

#### Description:

Diamond-Cote is a complete concrete repair unit. It provides high adhesion, resistance to moderately chemical exposure, and excellent resistance to heavy abrasion. It cures to sufficient strength to allow normal traffic within 16 hours, and cures completely within 7 days. It is especially useful where minimum interruption to normal operations is desired.

#### Features:

Suitable for both interior and exterior use. not recommended for use in areas subject to sudden extreme temperature changes. Cures to 39 MPa in 24 hours at 20°C. May be opened to foot traffic in 16 hours. Suitable for use in high traffic areas. Excellent resistance to heavy abrasion. Can be trowelled to a feather edge.

#### Use:

Repairing spalled, scaled and cracked concrete.

#### Properties:

##### Compressive Strength:

39 MPa at 1 day

69 MPa at 28 days

(A.S.T.M. C-579)@ 20°C.

##### Tensile Strength:

11 MPa at 28 days (A.S.T.M. C-307)

##### Coefficient of Expansion:

$9.6 \times 10^{-6}$  (A.S.T.M. C-531)

##### Shrinkage: .014% (A.S.T.M. C-531)

##### Impact Resistance: Excellent

##### Abrasion Resistance: Excellent

##### Wet Mortar Density: 1902 kg/m<sup>3</sup>

##### Adhesion to Concrete: Greater than strength of concrete (A.S.T.M. C-321)

##### Water Absorption: 0.05%

##### Specific Gravity: 1.9

##### Shelf Life: 1 year in unopened containers

##### Work Life: 45 minutes @ 20°C

##### Colour: White

#### Packaging:

Each unit of Diamond-Cote comes in a 19 litre pail containing 2 litres Component B and 22.73 kg. of Component A (powder).

#### Coverage:

Each container will cover approximately 4.76 m<sup>2</sup> @ 6.0 mm thickness.

#### Surface Preparation & Application:

1. All surfaces should be clean. Loose materials that could affect proper adhesion should be removed.
2. Add approximately 2 gallons of water to a clean mixing container to which Component "B" should be added. Mix well. Add Component "A" slowly under slow agitation and mix for approximately 5 minutes preferably using a drill and mixing paddle capable of producing not more than 650 RPM under load until mixture is smooth.
3. Apply Diamond-Cote in multiple coats up to a maximum of 25 mm thickness. Note that no coat should be applied at more than 3 mm thickness.
4. Allow each coat to dry at least one (1) hour between each application.

#### Safety Precautions:

Avoid contact with eyes, on skin, or on clothing - including shoes. Prolonged skin contact with Resin can cause skin irritation and skin sensitization. Avoid prolonged or repeated breathing of vapours. Do not take internally. For safe use, follow the precautions listed in the User Instructions. See material safety data sheet.

#### First Aid:

In case of contact with Resin or Mixes, immediately flush eyes or skin with plenty of water for at least fifteen minutes; for eyes, get prompt medical attention. Remove contaminated clothing including shoes. Wash clothing before re-use; discard contaminated shoes.

#### Guarantee:

Diamond Paints Limited 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's written instructions. Diamond 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 subject to change without notice. This technical data sheet supersedes all previous data sheets on this product.

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