

**PRODUCT DESCRIPTION:**

**DUREX ACRYBOND CONCENTRATE** is a water based 100% acrylic polymer cement additive. It is a highly concentrated versatile additive for cement mixes, specially formulated to optimize physical properties of Portland cement based mixes in a wide variety of applications.

**USES:**

When properly mixed with cement **DUREX ACRYBOND CONCENTRATE** can be used for the following applications:

- conventional site applied plaster base
- concrete topping
- repairs of honeycombed concrete
- flash patching
- parging coat for concrete block
- versatile general bonding additive

**ADVANTAGES:**

When properly mixed with cement **DUREX ACRYBOND CONCENTRATE** provides:

- excellent durability and strength

- superior compressive, flexural, adhesive and impact strength
- excellent abrasion resistance
- high resistance to chloride penetration
- low moisture absorption rate
- excellent adhesion to a wide variety of concrete and masonry surfaces; use of a primer is still recommended
- no requirement for moisture curing; optimum properties are obtained by air-curing at ambient temperatures
- better and more complete hydration of cement
- reduced shrinkage and cracking of the mixes.

**LIMITATIONS:**

Not recommended for use when ambient, surface and material temperatures are less than 5°C (41°F) during application and curing period.

**MIXING PROCEDURE:**

Do not substitute **DUREX ACRYBOND CONCENTRATE** with any other type of mixing liquid medium for the above recommended formulations

**TECHNICAL DATA**

**Physical Properties**

<b>Product type:</b>	Water based acrylic emulsion
<b>Appearance:</b>	White milky liquid
<b>Viscosity:</b>	60-100 cps
<b>Ph level:</b>	9.0-9.5
<b>Toxicity:</b>	Non-toxic

**Performance Characteristics of Typical Mixes**

Test	Standard	Result
<b>Tensile strength:</b>	ASTM C190-85	4.24 MPa (615 psi)
<b>Compressive strength:</b>	ASTM C109-90	39.4 MPa (5715 psi)
<b>Flexural strength:</b>	ASTM 348-79	10.9 MPa (650 psi)
<b>Shear bond:</b>	ASTM C882-87	4.48 MPa (650 psi)
<b>Impact strength:</b>	GIT IG-1115	16 in lbs
<b>Abrasion resistance:</b>	TABER ABRADER	1.15% weight loss

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ADMIXTURES & ACCESSORIES  
CEMENT BONDING AGENTS

unless otherwise approved in writing by **Durabond Products Limited**.

Thoroughly mix **DUREX ACRYBOND CONCENTRATE** before each use. Discard all frozen materials, materials which have formed solid lumps at the bottom of the container and materials which do not appear to be of a homogeneous viscosity.

Optimum properties of cement mixes are obtained when **DUREX ACRYBOND CONCENTRATE** is added at a ratio of 20 % by weight of cement in the formula 9 litres (2 gal.) **DUREX ACRYBOND CONCENTRATE** to 1 bag (40 kg) of Portland cement.

- parge coat for concrete block
  - 1 bag (40 kg) Portland cement Type 10
  - 68 kg (150 lb) #35 mesh silica sand
  - 9 litres **DUREX ACRYBOND CONCENTRATE**
  - 4 litres water
  - coverage:** 14 m<sup>2</sup> at 3.2 mm thick  
(150 ft<sup>2</sup> at 1/8")

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- concrete topping from 12 mm - 25 mm (1/2" - 1")
  - 1 bag (40 kg) Portland cement Type 10
  - 136 kg (300 lbs) concrete sand
  - 9 litres **DUREX ACRYBOND CONCENTRATE**
  - 10 litres water
  - coverage:** 7 m<sup>2</sup> at 12.7 mm thick  
(75 ft<sup>2</sup> at 1/2")

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- concrete topping over 25 mm (1")
  - 1 bag Portland cement Type 10
  - 59 kg (130 lbs) concrete sand
  - 100 kg (220 lbs) pea gravel
  - 9 litres **DUREX ACRYBOND CONCENTRATE**
  - 13 litres water

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- conventional site batched plaster base
  - 1 bag (40 kg) Portland cement Type 10
  - 1/2 bag (15 kg) masonry cement
  - 136 kg (300 lbs) clean plaster sand
  - 9 litres **DUREX ACRYBOND CONCENTRATE**
  - 13 litres water
  - coverage:** 9.3 m<sup>2</sup> @ 12.7 mm  
(100 ft<sup>2</sup> at 1/2") thick (two - 1/4" thick coats)

Mix the **DUREX ACRYBOND CONCENTRATE** with the materials in the proportions noted. The viscosity of the matrix, can be adjusted as desired, by adding a small amount of water. Mix thoroughly until matrix is free of lumps. Do not over mix or mix with mixing paddles at speeds over 600 rpm as excessive air will be induced into the mix which will affect the long term performance of the mixture.

Let mixture stand for 5 to 10 minutes, then retemper and use. Discard all mixtures which begin to harden a second time.

#### **CLEAN-UP:**

Clean all tools promptly after each use with clean water. Do not allow mixes to dry on tools.

#### **STORAGE:**

Store **DUREX ACRYBOND CONCENTRATE** in a dry, vented, waterproof location, stacked off the ground with ambient temperatures above 5°C (41°F). Keep material dry, protected from rapid temperature changes, dampness and moisture and away from direct sunlight.

KEEP FROM FREEZING.

#### **PACKAGING:**

**DUREX ACRYBOND CONCENTRATE** is readily available in 4 litre containers, 18.9 litre pails and 45 gallon (205 litres) drums.

#### **WARRANTY:**

**Durabond Products Limited** fully warrants their products when used and applied in strict accordance with the printed instructions on product mixing and product application. In any case **Durabond's** responsibility shall not exceed either the refund of the purchase price, or the replacement of the purchased product.

#### **TECHNICAL SERVICES:**

Technical assistance for unique applications and design is available upon request from **Durabond Products Limited**.

# DURabond

Manufacturers and Distributors of High Quality Construction Products

55 Underwriters Road, Toronto, Ontario M1R 3B4

Tel: (416) 759-4474 Toll Free: 1-877-DURABOND (387-2266) Fax: (416) 759-4470

Email: [info@durabond.com](mailto:info@durabond.com) Website: [www.durabond.com](http://www.durabond.com)

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