

### PRODUCT DESCRIPTION:

**DUREX EMC-KNIFE GRADE** is a one component water based, elastomeric, acrylic crack filler and repair product. It is used primarily to fill cracks, in concrete or other masonry type surfaces, prior to coating them with any one of our **Durex Architectural Coatings**. It is highly filled paste that dries with minimal shrinkage. It is an internally plasticized, non-sag, thixotropic formulation which eliminates unsightly "telegraphing through" spots which commonly occur when externally plasticized crack fillers are used. Its unique formulation results in a weather-proof coating with excellent adhesion to numerous substrates, especially concrete and/or masonry, and minimal shrinkage which allows it to remain flexible through many thermal cycles.

### USES:

**DUREX EMC-KNIFE GRADE** can be used to fill cracks up to 6mm (1/4") width by 6mm (1/4") depth, in numerous substrates such as the following:

- concrete
- cementitious plasters
- brick

- stucco
- concrete masonry units
- cement boards
- Exterior Insulation & Finish Systems (EIFS)

**DUREX EMC-KNIFE GRADE** is designed to be used on vertical substrates which will be coated with any of our **Durex Architectural Coatings**.

### LIMITATIONS

- do not use below grade
- do not apply at temperatures below 5°C (41°F)
- do not apply to green concrete (less than 28 days old)
- do not apply to frozen substrates
- do not use on cracks greater than 6mm X 6mm (1/4"X1/4")
- do not apply if rain is expected within 12 hours

### SURFACE PREPARATION

Substrate must be dry, clean, solid clean and sound, free of weak and powdery surfaces, dust, dirt, oil, grease, laitance, efflorescence, mildew, fungus,

### TECHNICAL DATA

#### Physical Properties:

<b>Product type:</b>	Acrylic based elastomeric coating
<b>Appearance:</b>	Paste
<b>Viscosity:</b>	Paste
<b>Ph level:</b>	9.0 to 9.5
<b>Toxicity:</b>	Non-toxic
<b>Minimum film forming temperature:</b>	5°C
<b>Shelf life:</b>	3 years

#### Performance Characteristics:

<b>Film thickness:</b>	0.26 mm (1 coat dry)
<b>Permeance:</b>	195.3 ng/Pa·s·m <sup>2</sup> @ 25°C
<b>Flexibility:</b>	180° over 1/8" rod at -20°C no cracking
<b>Curing time:</b>	2 hours tack free (at 20°C); 48 hours full cure (at 20°C)
<b>Adhesion:</b>	220 newton axial load: pass
<b>Tensile strength (max.):</b>	203 psi @ 25°C; 710 psi @ 0°C
<b>Elongation at break:</b>	355% @ 25°C; 130% @ 0°C
<b>Dirt pick-up resistance:</b>	Excellent
<b>Recovery after 24 hrs.:</b>	100%

biological residues and other deleterious substances detrimental to a positive bond.

CHECK WITH **DURABOND PRODUCTS LIMITED** FOR QUESTIONABLE SUBSTRATES.

Remove from all cracks loose, friable, delaminated and foreign material by using one of the following methods: high pressure compressed air, vacuum, or other approved mechanical means, such as hand-held power grinders/routers equipped with small diameter blades. Rinse all cracks with clean water to remove all dust, dirt, grease, oils or any other contaminants detrimental to a good bond and allow to dry.

**Hairline cracks - 0.79mm (1/32") or less in width:** clean cracks as described in the above recommendations and apply a coat of **Durex Dur-X-Cel Primer** if the substrate is chalky. After the **Durex Dur-X-Cel Primer** has dried, apply a coat of **DUREX EMC-KNIFE GRADE** and allow to dry. Small cracks - 0.79 to 1.6mm (1/32" to 1/16") in width: clean cracks as per the above described recommended methods, rinse with clean water and allow to dry. Apply a coat of **Durex Dur-X-Cel Primer** if the substrate is chalky. After the **Durex Dur-X-Cel Primer** has dried, apply **DUREX EMC-KNIFE GRADE** by using a broad knife, spatula or a caulking gun, allowing a 25mm (1") overlap on either side of the crack.

Larger cracks - 1.6mm to 6.4mm (1/16" to 1/4") in width: cut open or router cracks to 6.4mm (1/4") wide by 6.4mm (1/4") deep. Clean cracks by rinsing with clean water to remove all dust, dirt or other contaminants. Apply a coat of **Durex Dur-X-Cel Primer** if the substrate is chalky and allow to dry. Apply a bond breaker tape to the bottom of "squared" crack. Apply **DUREX EMC-KNIFE GRADE** by using a broad knife, spatula or a caulking gun allowing a 25mm (1") over on either side of the crack.

**(NOTE: DUREX EMC-KNIFE GRADE** is not intended to be used as joint sealant. For cracks or joints that are greater than 6.4mm (1/4") in width please contact a sealant manufacturer for their recommendations.)

#### **CLEAN UP:**

Clean all tools promptly after each use with clean water. Do not allow the product to dry on tools. **Durex Cleaning Solution CS-100** is available to aid cleaning of soiled areas where the **DUREX EMC-KNIFE GRADE** has dried.

#### **STORAGE:**

Store **DUREX-EMC KNIFE GRADE** in a dry, vented, waterproof location, stacked off the ground with ambient temperatures above 5°C (41°F).

#### **PACKAGING:**

**DUREX EMC-KNIFE GRADE** is packaged in 3.8 lt (1gal) and 1lt (1qt) containers and is available in all Durex Standard Colours. Custom colours are available upon request at a nominal cost.

#### **YIELD:**

Crack size (depth x width)  
Lineal Feet (meters)/ 3.8lt (1gal)  
3.2mm X3.2mm (1/8"X1/8") 1232ft (30.2 m)  
3.2mm X 6.4mm (1/8"X1/4") 616 ft (15.1m)  
6.4mm X6.4mm (1/4"X1/4") 24.8 ft (7.6m)

#### **WARRANTY:**

**Durabond Products Limited** fully warrants their products when used and applied in strict accordance with their 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

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