

## DATA SHEET

### ELITE CUT

Elite Cut is a next-generation, concentrated performance additive designed to substantially increase concrete grinding, drilling and cutting speed while lengthening diamond tool life.

Elite Cut radically improves diamond tool effectiveness and lifespan, while lowering tool wear, reducing segment loss and tool failure during application.

### KEY BENEFITS

- Part of the Carbon EliteFloor System
- Exploits a physical property called the Rebinder Effect, softening the substrate ahead of the tool.
- Maximizes effective torque at the tool–surface interface while reducing machine torque and tool vibration.
- Enables greater increase in penetration speed with increased cutting speeds and pressure.
- With pressure and heat, the additive forms a protective coating around each exposed diamond which minimizes diamond wear and retains sharpness.
- Preferentially fills micro fractures in diamonds as they occur during use, reducing hydraulic pressure inside the cracks and slowing disintegration of the diamonds.

### POLISHED CONCRETE APPLICATION

BEFORE APPLICATION, ALWAYS DO A SMALL TEST SAMPLE IN A LESS-VISIBLE AREA TO BE SURE THERE ARE NO VARIABLES OR CONTAMINANTS IN THE SUBSTRATE THAT MAY BE INCOMPATIBLE WITH THIS PRODUCT.

- Option 1 – mix 300ml Elite Cut to 10L of water (3% or 1:33 Ratio), then apply solution to concrete floor.
- Option 2 – First saturate the floor with water and then spray a fine layer of neat Elite Cut on top. Do not spray Elite Cut onto the floor first.
- Option 2 – In situations where you have system which releases water onto the floor as you go, premix 3% Elite Cut with the water in your tank or use an electronic doser/fertigation equipment to add 3% Elite Cut into the mix as you go
- Application rate is 3 to 4% Elite Cut mixed with water. 3% (300ml to 10L) is adequate for most applications. Increase to 4% (400ml to 10L) for very hard concrete.

### FURTHER APPLICATIONS

#### •Cutting Performance Additive for Concrete Cutting/Drilling

- Option 1 - Mix 300ml Elite Cut to 10L of water (3% or 1:33 Ratio), then add to water feed of saw or drill to enhance cutting speed.
- Option 2 – First saturate the cutting/drilling area with water and then spray a fine layer of neat Elite Cut on top. Do not spray Elite Cut onto the floor first.
- Application rate is 3% to 4% Elite Cut mixed with water. 3% is adequate for most applications. Increase to 4% for very hard concrete.

3% Ratio - 1:33

4% Ratio – 1:25

#### •Cutting Performance Additive for Ceramic/Porcelain

1. See step 4 to determine optimal percentage of Elite Cut to add to your ceramic processing water.
2. Elite Cut is recycled with your water and re-usable.
3. Elite Cut will slowly degrade with multiple usage and will be diluted as you add water to replace water which evaporates. Elite Cut is also attracted to the solids in the slurry which are filtered out. It is important re-dose by adding 1-2% Elite Cut to your recycled water at regular intervals (On average every 3 to 5 cycles).
4. While our in-house testing has produced excellent results at 2 to 4% concentration, experimentation is recommended to optimize results.  
Test at 2%, then increase concentration in 1% increments (3%, 4% etc) until achieve optimal performance.
5. Important: When recycling of water containing Elite Cut using pumps may causes foaming. If this occurs, dose with Anti-Foam agent available from Carbon Diamond Abrasives.

#### **CLEAN UP**

Use soap and water to clean tools and equipment. Use up or dry out extra material and dispose of according to local regulations. Do not pour into sewer systems or storm drains.

**Spillage:** Take up mechanically or with absorbent material such as sand, earth or vermiculite.

#### **PROPERTIES**

Form: Liquid

Colour: Clear colourless to light straw yellow liquid

Odour: Slight to none.

Specific Gravity: 0.97

Weight: 5L (1.3G) = 5.5Kg (12.1Lb), 20L (5.3G) = 21.4Kg (47Lb), 200L (53G) = 56.5Kg ( 24Lb) incl. pallet.

VOCs: <343g/L (using EPA method 24)

Shelf Life: 2 years in unopened, sealed container

- Store away from direct sunlight.
- Keep container tightly sealed, in a well-ventilated place, at 36 - 90° Fahrenheit or 2 - 32° Celsius

#### **PACKAGING**

20L

200L (On Special Order)

#### **LIMITATIONS**

Make certain the most current versions of the Carbon Elite Cut Product Data Sheet and SDS are being used.

Proper application is the responsibility of the user.

### **SAFETY/HEALTH INFORMATION**

KEEP OUT OF REACH OF CHILDREN.

**Eye:** If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

**Inhalation:** If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

**Skin:** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

**Ingestion:** If swallowed, do not induce vomiting.

CAUTION: Surfaces wet with Carbon Elite Cut may be slippery.

Additional precautions, safety information and first aid treatments are contained in the Safety Data Sheet.

#### **For Chemical/Medical Emergencies:**

Immediately contact a doctor, ambulance, or, a Poison Information Centre:

Australia - 13 11 26 (Australia Wide)

### **TECHNICAL SERVICE**

**Customer Care:** +61 (08)62431778

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Products in the EliteFloor System include:

Elite Cut

Elite Fill

Elite Hard (Potassium)

Elite Hard ULTRA (Lithium)

Elite Protect

Elite Guard

Elite Clean

Elite Clean ULTRA