

# Kel-Crete Industries, Inc.

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## Kel-Steel-Crete Modified Ceramic Cement Application Instructions & Technical Guidelines

### Introduction

**Kel-Steel-Crete** is a light weight high compression strength all-purpose repair compound with excellent bonding properties when applied correctly. **Kel-Steel-Crete** can be applied smooth, or can be stiffened for texture and vertical applications. **Kel-Steel-Crete** dries to a firm and durable surface in many cases stronger than the original substrate.

**Kel-Steel-Crete** provides a smooth, level moisture barrier. Self-levelling **Kel-Steel-Crete** cures and forms a firm, level surface that is impermeable to moisture.

Recommended uses: asphalt patch, crack repair, pre-stressed concrete, brick, stucco, pre-cast concrete, poured concrete, masonry block, tile pavers, cinder block.

### Applications

**Kel-Steel-Crete** can be floated over badly damaged asphalt to greatly extend the life of the surface at a fraction of the cost of applying new asphalt. **Kel-Steel-Crete** can also be used to patch cracks and holes in stucco, poured concrete, masonry block, tile pavers, cinder block, brick, mortar wash, and many other substrates. **Kel-Steel-Crete** makes an excellent light weight low spot repair on flat roofs prior to applying roof coatings, and is very water resistant.

### Method of Use

**Kel-Steel-Crete** is a single component material requiring only the addition of water available in 5-gallon pails, or 50-pound bags. Using a clean pail or mixing container blend 5 parts **Kel-Steel-Crete** with one part clean water adding the water to the container first. Mix at low to moderate speed until creamy and reasonably stiff as if it were whipped butter. Using a trowel, putty knife, or straight edge, float over the damaged surface or crack until depressions are filled completely. When repairing asphalt pavement several applications should be used to build surfaces up to ¼” to 3/8”. Remove any excess and clean up with water as soon as possible.

### Curing

Be careful not to allow wind or very hot concrete to draw excess water of the product or strengths can be compromised. **Kel-Steel-Crete** will be hard enough to walk on within 24 hours with strength maximizing in 30 to 60 days. See “Precautions and Limitations” for added information.

### Product Data

Drying time @ 70 degrees F. approximately 3 hours. Recoat in 24 hours where appropriate.

pH 9.0

Particle size 300 microns

Spread rate 120 to 150 sq. ft. per 5-gallon pail @ 3/16 of one inch thick.

Color and form: grey powder

**Kel-Steel-Crete** does not contain calcium chloride.

### **Precautions & Limitations**

Closely examine surfaces to be repaired removing loose and deteriorated particles. Clean surfaces of bond-inhibiting materials including, but limited to oil, dust, dirt, laitance and standing water for best adhesion. Do not proceed with application until unsatisfactory conditions are corrected. **Kel-Steel-Crete** should not be applied where surface temperatures are below 4 degrees F. (5 degrees C.) when there is a possibility of temperatures falling below freezing. Cool temperatures and high humidity will retard the curing time of **Kel-Steel-Crete**. Take caution not to apply **Kel-Steel-Crete** if weather conditions do not allow for a complete cure before rain, dew, or freezing temperatures.

**Kel-Steel-Crete** should only be used on clean, firm surfaces. Loose, scaly, dusty, chalky, oil and greasy materials, efflorescence deposits, lime, salts, and dirt should be removed by thorough wire brushing, high power pressure washing, or sand blasting. New and old surfaces must be completely dry at least 24 to 36 hours before application. Light sand blasting of older concrete surfaces helps **Kel-Steel-Crete** to chemically react more uniformly.

### **Safety**

Avoid breathing dust and getting in eyes. Where dust conditions exist that exceed nuisance dust levels set by OSHA use an approved dust mask and eye goggles. Continuous handling of **Kel-Steel-Crete** may result in dry skin. Use a lanolin based hand cream to restore moisture where needed. For additional safety information consult the **Kel-Steel-Crete** MSDS.