

# DK 900™

## TECHNICAL DATA SHEET



### DESCRIPTION

**DK 900** is a dual component, water reducible, multifunctional, concrete protectant that repels oil, salt, de-icing agents, and water. With its roots in Urethane and Acrylic nanotechnology **DK 900** is designed to be minimal/non-film forming on concrete and natural stone surfaces. Nanotechnology allows for deep penetration into porous substrates **DK 900** is excellent as a maintenance guard on existing slabs.

**DK 900** is suitable for numerous interior or exterior surfaces including but not limited to polished concrete, broom finish concrete, stained concrete, decorative concrete, exposed concrete, honed and polished travertine, white Carrera marble, natural stone, pavers, synthetic stone, unglazed tile, and brick. It excels in performance on vertical and horizontal surfaces. Examples of vertical surface included but are not limited to Precast walls, block walls, decorative concrete walls, and paver retaining walls. Suitability tests are recommended for each substrate to help determine coverage rates. Can be applied to fresh concrete as soon as 14 days, 24-48 hours for thin overlayment's.

**DK 900** invisibly protects chemically hardened industrial floors, commercial facilities, machine shops, auto repair facilities from oil, salts and water damage. It helps protect from prolonged exposure to food items such as vinegar, soda, and pickle juice.



### POLISHED SURFACES

#### SURFACE PREP

**Clean:** The surface must be free of dust, dirt, oil, grease, paints, glues, film-forming sealers, curing agents, efflorescence, chemical contaminants, rust, algae, mildew and other foreign matter that may serve as a bond breaker or prevent proper adhesion or penetration.

**Patching:** Joints sealants, caulking and non-cement-based patching materials will not accept **DK 900**. Ensure joints, caulking and patching has been done prior to application to avoid surface preparation in these areas after application. Cement based repair work should be accomplished 24 hours prior to application.

#### TEMPERATURE/CURE

Do not allow product to freeze, whether in shipping or storage. Part A of product that has frozen will separate and curdle; Part B does not change in appearance. However, product that has frozen, should not be used.

Apply in ambient and surface temperatures ranging above 70°F (21°C) and below 90°F (32°C)

<b>Water Repellency</b>	24 hours
<b>Recoat "window"</b>	After 2 hours
<b>Avoid Foot Traffic</b>	2 hours or dry to the touch
<b>Chemical and Stain Resistance</b>	168 hours @ 70°F (21°C)
<b>May be cleaned with base, non-abrasive cleaners</b>	After 168 hours

## QUICK FACTS

#### PACKAGING

1-Short Filled Gallon container containing .4 gallons (Part "A")  
1-Short filled F-Style Metal Quart Container containing .2 gallons (Part "B")

#### SHELF LIFE

Under normal, moisture free conditions  
12 months for unopened container

#### COVERAGE

Approximately 1800 ft<sup>2</sup> per kit or 600 ft<sup>2</sup> per usable gallon of product 6 mils wet / completed system < 1 mils cured

#### APPLICATION

##### **Planning**

1. Provide for ventilation. Select appropriate PPE. Refer to SDS.
2. Mask/shield surrounding areas not intended for coating.

##### **Mixing and handling**

1. Organize mixing station that neither has to relocate, nor block the progress of application.
2. Product will become unstable after opening, open only when ready to use.

- Pour contents of part B into part A's 1 gallon (3.7 liter) can.
- Mechanically** mix complete kit both parts A and B for 3 minutes at slow to medium speed with a jiffy style mixer.
- Add** mixed components into a 3-gallon bucket.
- Add water to the 3-gallon mark approximately 1 ½ "(3.8 cm) from overflow).
- Mechanically mix for 3 minutes at slow to medium speed with a jiffy style mixer.

#### First Coat

- Pour catalyzed, water reduced product into pump-up sprayer equipped with a cone tip.
- Spray light mist of product on the intended substrate. Surface should be SSD at 100% coverage avoiding puddles.
- Using a micro fiber applicator, evenly spread product and eliminate any puddling.
- Allow 1-3 minutes for product to penetrate the substrate.
- Burnish floor using either a high or low speed rotational floor machine equipped with 800 – 3000 grit **Hurricane Pad**. May be used in conjunction with heat reflectors.

#### Second Coat

- Porous areas, areas of heavy traffic, or high levels contamination and staining will require a second application.
- After 2 hours after first coat, second coat may be applied.
- Second coat applies as described above for first coat.

## NON-POLISHED SURFACES

**Includes broomed-finished, and tilt-up concrete, concrete block and walls [decorative concrete, concrete form lined], stone walls, and other natural stone products containing a porous surface.**

#### SURFACE PREP

**Clean:** The surface must be free of dust, dirt, oil, grease, paints, glues, curing agents, efflorescence, chemical contaminants, algae, mildew and other foreign matter that may serve as a bond breaker or prevent proper adhesion.

Mild degreasers, such as **SCR** used in conjunction with pressure washing at a minimum of 3500 psi can be used in areas containing heavy grease deposits. Surface areas that are not contaminated can be prepared using a 4000-psi pressure washer. Use of *Dawn* dish soap is also an acceptable degreaser for environmentally sensitive areas.

To remove coatings, paint, sealers, glue from concrete, etc. best results are achieved through diamond grinding or shot blasting.

**Cured:** Any concrete must be sufficiently cured to have complete hydration, approximately 14 days depending on temperatures & humidity. **Cement based overlays** and restoration products such as **Broom Finish** and Couture Concrete Products, typically cure sufficiently within 1-2 days.

**Sound:** No system should be placed on flaking or spalling concrete without proper remedial steps to ensure uniformity. If the surface is delaminating, or divots are present, diamond grinding, shot blasting, or other mechanical means should be used to remove the delaminating areas. Depending upon size of area, patching may be required prior to application. **Flash Patch** or **Deep Level** is an excellent choice as a patching product to complement the system. Refer to their respective TDS.

Large expansive slabs should have planned appropriate flexible caulks to allow for movement. Cracks in concrete may likewise require treatment: evaluate crack as static or structural to set expectation of treatment.

Joints sealants, caulking and non-cement-based patching materials will not accept **DK 900**. Ensure joints, caulking and patching has been done prior to application to avoid surface preparation in these areas after application.

#### TEMPERATURE/CURE

Do not allow product to freeze, whether in shipping or storage. Part A of product that has frozen will separate and curdle; Part B does not change in appearance. However, product that has frozen, should not be used.

Apply in ambient and surface temperatures ranging above 70°F (21°C) and below 95°F (35°C)

<b>Water Repellency</b>	24 hours
<b>Recoat "window"</b>	Between 1 – 72 hours
<b>Open time</b>	2 hours with agitation at 20 min. intervals
<b>Avoid Foot Traffic</b>	2 hours or dry to the touch
<b>Chemical and Stain Resistance</b>	168 hours @ 70°F (21°C)

#### APPLICATION

##### **Planning**

- Provide for ventilation. Select appropriate PPE. Refer to SDS.
- Mask/shield surrounding areas not intended for coating.

##### **Mixing and handling**

- Organize mixing station that neither has to relocate, nor block the progress of application.
- Product will become unstable after opening, open only when ready to use.
- Pour contents of part B into short filled Part "A".
- Mechanically mix complete kit both parts A and B for 3 minutes at slow to medium speed with a jiffy style mixer.
- Catalyzed concentrate = .6 (2.25 liters).
- Pour catalyzed mixture into a 3-gallon bucket.
- Add water to the 3-gallon mark on the catalyzed pail.

- Mechanically mix for 3 minutes at slow to medium speed with a jiffy style mixer, avoiding air entrainment.

#### **First Coat**

- Pour catalyzed, water reduced product into pump-up sprayer equipped with a cone tip.
- Spray light mist of product on the intended substrate. Surface should be SSD at 100% coverage avoiding puddles.
- Allow to soak in, using a lint free roller, back roll puddles, drips or runs.
- When applying to vertical surfaces begin application from the bottom up to avoid staining from un-noticed drips or runs.

#### **Second Coat**

- Porous areas, areas of heavy traffic, or high levels contamination and staining will require a second application.
- After 2 hours after first coat, second coat may be applied.
- Second coat applies in same manner as described above for first coat.

## SUITABILITY SAMPLE

Conduct suitability study for each application to determine coverage rates for intended substrate and exposure from foreign stains.

## CLEAN-UP

Before **DK 900** dries; spills and tools can be cleaned up with a solvent such as denatured alcohol.

## DISPOSAL

Contact your local government household hazardous waste coordinator for information on disposal of unused product. Upon curing, left over catalyzed product is not hazardous.

## LIMITATIONS

For use by trained professionals that have read the complete SDS.

## WARRANTY

Warranty of this product, when used according to the directions, is limited to refund of purchase price, or replacement of product (if defective), at manufactures/seller's option. SureCrete Design Products shall not be liable for cost of labor or direct and/or incidental consequential damages.

## CAUTIONS

**KEEP OUT OF REACH OF CHILDREN.** Keep areas ventilated to prevent the accumulation of vapors. **Inhalation:** Do not spray or atomize product. **Skin Contact:** Skin contact may cause irritation. Remove contaminated clothing and wash affected skin with soap and water. Launder clothing before reuse. If symptoms persist, seek medical attention. **Eyes:** Wear safety eye protection when applying. If contact occurs, flush eyes with water for 15 minutes.

## SAFETY DATA SHEETS

The following are links to all available safety data sheets related to this product:

[DK 900 Part A Safety Data Sheet \(SDS\)](#)

[DK 900 Part B Safety Data Sheet \(SDS\)](#)

## MANUFACTURER PART #'S

Part A 55102020

Part B 55102021