



# Technical Data Meets Federal EPA's VOC Requirements

## 1. PRODUCT NAME

BARDPRO DuraSeal

## 2. MANUFACTURER

TK PRODUCTS

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## 3. PRODUCT DESCRIPTION

DuraSeal is a ready-to-use, colorless, breathable, non-staining, non-yellowing and deep penetrating. Because of its formulation, DuraSeal may be applied to concrete that had previously been applied with a cure and seal such as: Achro Seal AS-1, Achro Kure AK-2, BARDPRO DuraCure, or Bright Kure and Seal. It should be sprayed and back rolled over the concrete to re-solvate the resin on the surface; penetrating and sealing it off from water and harmful deicers that can cause concrete deterioration.

DuraSeal is a low viscosity oligomeric organosiloxane concrete water repellent. It achieves maximum hydrolysis under the influence of atmospheric moisture and polymerizes to a polysiloxane which is tack free and hydrophobic in nature. Through this reaction, the siloxane groups are chemically bonded to the concrete; eliminating the moisture that had previously engulfed the cementitious surface. The removal of moisture helps to eliminate damage from spalling, freezing, and rebar corrosion. Therefore, DuraSeal is chemically bonded within the substrate, not just physically bonded like other surface penetrating sealers.

## BASIC USES:

DuraSeal can be used on any clean, dry, cementitious surface that has previously had a compatible curing and sealing compound applied. It may be applied on above ground surfaces, both vertical or horizontal.

It helps protect the surface against damaging effects of water intrusion, acid rain, deicing chemicals, freeze/thaw exposure, airborne dirt, smog, industrial fumes, and most other atmospheric chemicals.

## Applications Include:

- A. Parking structures
- B. Concrete Driveways, Sidewalks, Porches, and Patios
- C. Concrete Parking Lots
- D. Precast concrete
- E. Poured concrete walls
- F. Natural and synthetic stone

DuraSeal is not suitable for use on gypsum.

## Typical Properties:

DuraSeal has been carefully designed for use on above grade exterior surfaces and is characterized by the following properties:

- Excellent penetration.
- High alkali resistance.
- Low volatility.
- Dries tack free.
- Provides early water repellency.
- Exhibits droplet effect.
- Suitable for alkaline & neutral substrates

## LIMITATIONS:

DuraSeal should not be used below grade or under hydrostatic pressure. A test patch should always be applied to determine compatibility with the sealed substrate and to assess application coverage rate. Do not apply if rain is expected within 4-6 hours of application.

## 4. TECHNICAL DATA

<b>Density:</b>	6.72 lbs.
<b>Flash Point:</b>	76°F
<b>Passes NCHRP 244 for:</b>	- Water absorption - % Water vapor transmission - % Reduction in chloride intrusion

- ASTM C-666 Resistance of Concrete to Rapid Freezing and Thawing
- ASTM C-672 Scaling resistance 75 cycle is a +0 rating.
- AASHTO T259 – Resistance of Concrete to Chloride Ion Penetration
- Test Results given upon request.
- A.I.M. Category: Waterproofing Sealer and Treatment - maximum VOC 600g/l. This product exceeds the maximum VOC limit. There will be an EPA exceedance fee charged at the time of purchase.

- A.I.M. Definition: A coating formulated and recommended for application to a porous substrate for the primary purpose of preventing the penetration of water.

## 5. APPLICATION PROCEDURES AND INSTRUCTIONS

### Surface Preparations:

All surfaces to be treated must be clean and structurally sound. Thoroughly cleanse the surface(s) to remove all grease, oil, form oils or other contaminants.

### Old Concrete:

Remove unsound concrete and repair deteriorated areas and cracks. Surfaces may need to be mechanically abraded to get maximum penetration.

### New Concrete:

Concrete that has a curing and sealing compound should be allowed to properly cure (lighten up in color). As a standard procedure, fresh concrete should be allowed to thoroughly cure before applying DuraSeal.

Best results are obtained by applying DuraSeal on dry substrates. A test patch should be applied to determine proper results and coverage rates.

### Application:

DuraSeal should be used as packed; no diluting is necessary. To insure the surface is frost free, it is recommended that the substrate surface temperature be 40°F or above. DuraSeal may be sprayed and back rolled or applied by roller.

Continue back rolling until the concrete has a wet look. The cure and seal that has been re-solvated on the surface should be evenly spread out by the roller.





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Apply DuraSeal to the surface in a uniform manner and in sufficient quantity to completely wet out the substrate. Any pools that accumulate on the surface after 5 minutes should be rolled out. Any dry areas that accumulate after 5 minutes should receive an additional light coat.

**COVERAGE RATE\*:**

Recommended coverage rate for DuraSeal is 150 square feet per gallon on most concrete substrates. Very porous surfaces may require two coats of DuraSeal.

DuraSeal

Surface Type	Sq.Ft./Gallon
Concrete Driveways, Sidewalks, Patios	150-250
Bridge Decks/Ramps	100-200
Smooth Concrete	125-225
Exposed Aggregate	100-200
Concrete Block	50-100
Brick/Stone	60-200

*\*Coverage rates are provided as a guideline only. The texture and absorption characteristics of the surface will determine actual coverage rates. Concrete should stay wet with product for 5 minutes or spray more in the lightly covered areas.*

**CLEAN UP:**

Clean up tools with xylene.

**PRECAUTIONS:**

DuraSeal will react with water vapor. To insure maximum effectiveness, keep containers tightly sealed when not in use. DO NOT use or store near heat or open flames. All safety precautions must be adhered to at all times. Only apply in well ventilated areas. Do not smoke in the area and turn off all pilot lights. Wear protective goggles, gloves and respirators.

**MAINTENANCE:**

If wear patterns do occur DuraSeal can be reapplied to the affected area.

**FIRST AID:**

**Inhalation:** Relocate person to fresh air, give artificial respiration if not breathing. GET MEDICAL HELP. Eye and Skin

**Contact:** Wash with large quantities of clean water for 15 minutes. Ingestion: Do not induce vomiting. GET MEDICAL HELP. Use with adequate ventilation.

**6. AVAILABILITY**

DuraSeal is available through BARD Materials Plants. Contact your nearest BARD Materials Location.

**Packaged in:** 5-gallon pails.

**7. CONDITIONS OF SALE/ LIMITED WARRANTY**

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**8. TECHNICAL SERVICES**

BARD Materials offers assistance with specifications, performance test data and field services.

**9. FILING SYSTEMS**

Information Handling Services  
PO Box 1213  
Englewood, CO 80150  
Information Marketing Services  
13271 Northend  
Oak Park, MI 48237

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