

## GOODCRETE Deep Penetrating Sealer (GOOCRETE DPS)

### 1. DESCRIPTION

GOODCRETE Deep Penetrating Sealer(DPS) is a water-based, inorganic, surface applied but internal reactive chemical compound that especially for the waterproofing/anti-permeability of concrete structure. Through the pores, DPS penetrates into the concrete structures, reacts with the calcium hydroxide, hydrated lime etc, then generate a kind of silicate gel, after the water inner of which evaporated, it solidifies into crystalline powder and fills in the pores, when the concrete structure is dry, it presents as crystalline, which can maintain the concrete's good breathability; when meets with moisture or water, the crystalline solid expands and blocks the moisture's penetrating. Thus, DPS gives the concrete structures all-sided and permanent protections, such as sealing/waterproofing/anti-permeability/hardening/dust-proofing/anti-corrosion/anti-aging etc, so, DPS is not only a kind of waterproofing, but also a concrete protective solution.

### 2. TECHNICAL DATA

Shape	Liquid
Color	Colorless
Odor	Odorless
Organic or Inorganic	Inorganic
Specific Gravity,	≥1.07 g/cm <sup>3</sup>
Freezing Point	-2℃
Boiling Point	110℃
PH	11
Flammability	Non flammable
VOC	No
Environment Hazard	Environment Friendly
Drying Time	2-4h

### 3. ADVANTAGES

- ❖ Permanent Waterproofing, moisture-proofing, anti-permeating;
- ❖ Sealing, hardening, dust-proofing, anti-efflorescence;
- ❖ Anti-corrosion of acid, alkali and salt;
- ❖ Excellent resistance of hydrostatic pressure;
- ❖ Improving concrete structures' resistance of high temperature and freeze/thaw cycle damage;
- ❖ Self sealing ≤0.3mm hairline cracks repeatedly;
- ❖ Protecting the rebars against chloride ion corrosion;
- ❖ Extend the life time of the concrete structures;
- ❖ Environment friendly;
- ❖ Easy to use, can up to 1500-2000m<sup>2</sup>/man per day;
- ❖ Giving the concrete structure all-sided and permanent improvement and protection;
- ❖ Can greatly reduce the cost of labor, repair and maintenance.
- ❖ Can be applied on both old concrete and new concrete.

### 4. PERFORMANCE DATA

Test Standard	Test Result
ASTM C-642	Reduces water absorption up to 98%
NCHRP 244	Absorbed chloride: <6%
ASTM-C-67 Section 29	High resistance to efflorescence
ASTM C 39	35% increase in compressive strength
ASTM C 779	35 % increase in surface hardness, >200% increase in wear resistance

## GOODCRETE Deep Penetrating Sealer (GOOCRETE DPS)

ASTM G23-81	Resistance to sunlight (UV) and water spray - Excellent
ASTM-C-156	Significant improvement in curing against hairline cracking and spot drying.
ASTM D 3359	20% increase in epoxy adhesion
Bacterial Growth	Discourage
Resistance to Alkalinity	Excellent
Surface Appearance	No color or texture change. No gloss.
Paint Adhesion	Treated surfaces are compatible with any type of covering

### 5. APPLICABLE PLACES

Almost can be used for all concrete constructions that need waterproofing, moisture proofing, anti-penetrating, whatever new or old, below and above ground, indoors and outdoors.

But, strongly recommended for the infrastructure, industrial and commercial buildings, such as, Subways, Civil Air Defense, Bridges, Decks, Dams, Tunnels, Reservoirs, Underground Passages, Plants, Warehouses, etc.

### 6. SURFACE PREPARATION

#### Freshly Finished Concrete

No treatment need, but application need after at least 7days of the concrete casting.

#### Existing Concrete

1. Cracks >0.3mm, should be repaired.
2. To sweep, scrub, or strip the concrete to remove any surface contamination or film to ensure the DPS can efficiently penetrate the surface.

### 7. DIRECTION OF USING

1. Shake well before use, do not dilute, do not mix.
2. Apply with low-pressure sprayer, brush or roller to spray/brush/roll directly and evenly on the clean concrete surface, air temperature at 4-40℃, and relative humidity 10-90% is the best.
3. 24h after the first time spraying, proceed the second spraying.
4. Wash the sprayers etc tools with water after the construction completing.

Generally, the penetrating time of DPS is 1-3h, 3h or surface becomes dry after construction, the floor can walk, and after 24h can backfill and start following works.

Note: When rain and strong wind, don't construct, and avoid the surface suffer from water and rain within 24h after construction.

#### Coverage

Approximately 150-200square feet/gallon, or 3-5m<sup>2</sup>/kg(2 times spraying).

**Please Note:** Variations in concrete quality, porosity, job site conditions, temperature and relative humidity will affect coverage rates and drying times.

### 8. LIMITATIONS

- A. Not suitable for lightweight blocks, porous masonry etc similar products.
- B. Surfaces previously treated with curing or sealing

---

## GOODCRETE Deep Penetrating Sealer (GOOCRETE DPS)

agents, unless these coatings have completely worn off or have been removed by chemical or mechanical means.

C. Don't use DPS to seal cracks, joints or gaps.

For additional product and application information, please visit our website: [www.goodcrete.com](http://www.goodcrete.com), or contact at [linda@goodcrete.com](mailto:linda@goodcrete.com)

## 9. STORAGE AND LIFE

1. Store in cool place, do not mix with other chemicals;
2. Keep this product out of the reach of children;
3. Un limited shelf life under sealed condition.

## 10. FIRST AID

In case of any chemical emergency related to our products; spill, leak, fire or accident, please take emergency measures ASAP according to following aid information.

### **Ingestion:**

Drink large quantities of water or milk. DO NOT induce vomiting. Seek medical attention immediately.

### **Eye Contact:**

Remove contact lenses. Immediately flush eyes for 15 minutes in clear running water while holding eyelids open. Seek medical attention immediately.

### **Skin Contact:**

Wash contacted area with soap and water. DO NOT attempt to neutralize with chemical agents. If irritation persists, seek medical attention.

### **Inhalation:**

Remove affected person to fresh air. Wash mouth and nasal passages with water repeatedly. If breathing difficulties persist, seek medical attention.

## 11. CUSTOMER SERVICE