



# Penetrating Water Repellents





## Penetrating Water Repellents from ChemMasters

Unlike traditional sealers that leave a film on the top of concrete, penetrating sealers soak deeply into concrete and undergo a chemical reaction. That reaction creates a long lasting and effective barrier, preventing the absorption of water and deicing chemicals which damage concrete from the inside.

Water becomes destructive as it freezes and expands, exerting tensile stress within concrete. These stresses are enough to cause spalling and scaling of the concrete surface. Over time, both water and deicing chemicals will corrode the rebar and structural steel inside concrete. As steel corrodes it expands and creates additional tensile stresses that further damage concrete, resulting in cracks, potholes and even surface delamination.

Penetrating sealers react within the pores and capillaries in concrete, providing maximum long-term protection from the damaging effects of both water and deicing chemicals.

### **Some of the unique advantages penetrating water repellent chemistries offer are:**

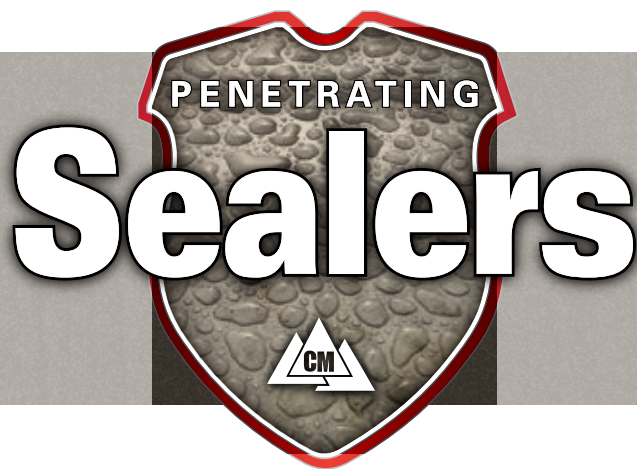
- Deep penetration within the concrete substrate where they are not susceptible to abrasion damage common to surface coatings.
- Longer lasting protection.
- Superior water and chloride repellency to protect against damage caused by repeated freeze/thaw cycles and deicing chemicals.
- Enhanced corrosion protection of underlying rebar and structural steel.
- When properly applied, penetrating treatments do not produce a surface build up, darkening or other effects on the color or texture of the concrete surface leaving a natural appearance.

### **ChemMasters offers the broadest range of penetrating water repellents to meet the performance requirements of a wide variety of applications. Choose from versions that are:**

- Water-based and safe to use indoors and have minimal impact on landscaping.
- Solvent-based for deeper penetration and enhanced recoat capabilities.
- Oil, water and stain repellent.
- Suitable for residential, commercial and DOT applications.
- Contain a special corrosion inhibitor for increased protection of underlying rebar and structural steel.



*Select from the following ChemMasters penetrating water repellent products, or call our Technical Service Department at **1-800-486-7866** to discuss your application.*



## Penetrating Water-Repellent Sealers

### Water-Based Silanes & Siloxanes

#### **PowerSeal® 40**

40% solids, penetrating, water-repellent, chemically reactive water-based silane sealer for DOT and commercial concrete. Low-VOC (<100 g/L). *Specifications: NCHRP 244, Series II & Series IV; ASTM C672*

#### **PowerSeal® 20**

20% solids, penetrating, water-repellent, chemically reactive water-based silane sealer for commercial & residential concrete. Low-VOC (<100 g/L).

#### **PowerSeal® SS Plus**

8% solids, penetrating, water-repellent, chemically reactive water-based silane modified siloxane sealer for commercial & residential concrete and masonry. Low-VOC (<100 g/L).

#### **PowerSeal® SS**

5% solids, penetrating, water-repellent, chemically reactive water-based silane modified siloxane sealer for commercial & residential concrete and masonry. Low-VOC (<100 g/L).

### Low-VOC Solvent-Based Silanes

#### **Certi-Vex® Penseal 244 CT**

100% solids, low-VOC (<250 g/L), penetrating, water-repellent, chemically reactive silane sealer with corrosion inhibiting treatment for DOT and commercial concrete. *Specifications: NCHRP 244, Series II & Series IV; ASTM C672 & ASTM G109, FHWA-RD-98-153*

#### **Certi-Vex® Penseal 244 O/W AIM**

40% solids, low-VOC (<250 g/L), penetrating, water, oil and stain repellent, chemically reactive silane sealer for commercial and residential concrete. *Specifications: NCHRP 244, Series II & Series IV; ASTM C672*

#### **Aquanil™ Plus 100**

100% solids, low-VOC (<250 g/L), penetrating, water-repellent, fast drying, chemically reactive silane sealer for DOT, commercial and residential concrete. *Specifications: NCHRP 244, Series II & Series IV; ASTM C672*

#### **Certi-Vex® Penseal 244 100%**

100% solids, low-VOC (<250 g/L), penetrating, water-repellent, chemically reactive silane sealer for DOT, commercial and residential concrete. *Specifications: NCHRP 244, Series II & Series IV; ASTM C672*

#### **Aquanil™ Plus 40-A**

40% solids, low-VOC (<250 g/L), penetrating, water-repellent, fast drying, chemically reactive silane sealer for DOT, commercial and residential concrete. *Specifications: NCHRP 244, Series II & Series IV; ASTM C672*

#### **Certi-Vex® Penseal 244 40% AIM**

40% solids, low-VOC (<250 g/L), penetrating, water-repellent, chemically reactive silane sealer for DOT, commercial and residential concrete. *Specifications: NCHRP 244, Series II & Series IV; ASTM C672*

#### **Certi-Vex® Penseal 244 400**

40% solids, penetrating, water-repellent, chemically reactive silane sealer in isopropyl alcohol for DOT and commercial concrete. *Specifications: NCHRP 244, Series II & Series IV; ASTM C672; NY DOT approved*

### Solvent-Based Silanes

#### **Certi-Vex® Penseal 244 O/W**

40% solids, penetrating, water-repellent, oil-repellent and stain-repellent, chemically reactive silane sealer for commercial and residential concrete. *Specifications: NCHRP 244, Series II & Series IV; ASTM C672*

#### **Aquanil™ Plus 100**

100% solids, penetrating, water-repellent, fast drying, chemically reactive silane sealer for DOT, commercial and residential concrete. *Specifications: NCHRP 244, Series II & Series IV; ASTM C672*

#### **Certi-Vex® Penseal 244 100%**

100% solids, low-VOC (<250 g/L), penetrating, water-repellent, chemically reactive silane sealer for DOT, commercial and residential concrete. *Specifications: NCHRP 244, Series II & Series IV; ASTM C672*

#### **Aquanil™ Plus 40**

40% solids, penetrating, water-repellent, fast drying, chemically reactive silane sealer for DOT, commercial and residential concrete. *Specifications: NCHRP 244, Series II & Series IV; ASTM C672*

### Boiled Linseed Oil

#### **Anti-Spall 55**

55% solids, boiled linseed oil anti-spalling compound for DOT and commercial concrete. *Specifications: ASTM D235; ASTM D260; AASHTO M126 & M128; Fed. Spec. TTL 190C & TTT 291C*

# Penetrating Water-Repellent Sealers for Concrete & Masonry

Product Name	Oil & Stain Resistant	NCHRP 244	VOC Level	% Solids	Corrosion Treatment	Faster Drying	Concrete	Concrete & Masonry
<b>Solvent-Based</b>								
Certi-Vex® Penseal 244 CT*		•	<250 g/L	100%	•		•	
Certi-Vex® Penseal 244 O/W AIM*	•	•	<250 g/L	40%			•	
Aquanil™ Plus 100*		•	<250 g/L	100%		•	•	
Certi-Vex® Penseal 244 100%*		•	<250 g/L	100%			•	
Aquanil™ Plus 40-A*		•	<250 g/L	40%		•	•	
Certi-Vex® Penseal 244 40% AIM*		•	<250 g/L	40%			•	
Certi-Vex® Penseal 244 O/W	•	•	<600 g/L	40%			•	
Aquanil™ Plus 40		•	<600 g/L	40%		•	•	
<b>Water-Based</b>								
PowerSeal® 40		•	<100 g/L	40%			•	
PowerSeal® 20			<100 g/L	20%			•	
PowerSeal® SS Plus**			<100 g/L	8%				•
PowerSeal® SS**			<100 g/L	5%				•

\*Low VOC \*\*Silane Siloxane



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