

Impede® IntraSeal

Integral Water Repellent Admixture for Concrete

PRODUCT INFORMATION

PACKAGING

Packaged in 55 gallon drums, and 250 gallon totes.

SHELF LIFE

36 months from date of manufacture.

STORAGE

Impede® IntraSeal does not freeze.

SPECIFICATIONS/COMPLIANCES

ASTM C494 Type S

AASHTO M 194 Type S

DESCRIPTION

Impede® IntraSeal is a non-chloride, non-corrosive liquid water repellent admixture designed for use in ready mix concrete. **Impede® IntraSeal** provides resistance to water penetration by reacting with the cement to form strong water repellency throughout the concrete structure.

PERFORMANCE BENEFITS

- Promotes water repellency
- Reduces efflorescence
- Increases freeze-thaw resistance
- Does not freeze or separate
- Allows vapor transmission
- Enhances durability for late season exterior flatwork applications
- Enhances colored and stamped concrete

DOSAGE RATES AND DIRECTIONS FOR USE

Impede® IntraSeal is recommended for use at a dosage rate of 6 to 10 oz/cwt of cementitious material. (390 to 650 mL/100 kg)

When using **Impede® IntraSeal** in combination with **UltraFinish™1L**, effective dosage may be reduced to 4 oz/cwt of cementitious material.

Impede® IntraSeal dosage rate depends on desired performance characteristics, mix variables, and conditions at time of placement. Higher dosages are acceptable with prior testing and confirmation of the desired performance with specific materials used.

For best results, each admixture must be batched at separate intervals with the initial or final batch water, and should not come in direct contact with any other admixture until they are mixed in the concrete batch. Admixtures should not come in contact with any dry cementitious material.

When using **Impede® IntraSeal** for non-air-entrained concrete applications, conduct pre-placement testing per ACI guidelines at point of placement, to ensure air content meets project requirements. When using **Impede® IntraSeal** the mix may take longer to generate its final air content. It may slow the generation up to 30 minutes. It is highly recommended to set air dosages based on the results on the jobsite. Due to the water repelling benefits of **Impede® IntraSeal**, we recommend a final air content of 4.5% - 6.5%. When trowel finishing concrete, ensure bleed water evaporates completely before troweling to avoid water entrapment or delamination issues. Note that local materials, batch differences, subgrade materials, and on-site conditions may affect the finishing techniques necessary for optimal surface integrity.

TECHNICAL NOTES

Curing of concrete is not necessary to optimize strength when using **Impede® IntraSeal**. When combined with a solvent based acrylic cure and seal, the durability of the concrete can be improved by preventing deicing salts from penetrating into the concrete surface. This is particularly important for the first two years following construction. In addition, with the unpredictability of variable weather conditions such as rapid evaporation resulting from high winds, heat and low humidity the use of a topical curing compound can provide additional durability benefits.

If any water-based product, including curing compound, is desired to be applied to concrete after finishing, it is critical the compound be applied immediately after the last finishing operation. The water-repellent characteristics of **Impede® IntraSeal** begin to form just prior to final set. If a water-based compound is applied after water-repellency develops, mottling or puddling of the product can be expected, rendering it useless.

Impede® IntraSeal is compatible with Portland cements, Portland limestone cements, blended cements, class C and F fly ash, slag cements, silica fume, calcium chloride, and fibers. **Impede® IntraSeal** can be used in all white, colored, and architectural concrete.

PRECAUTIONS/LIMITATIONS

Impede® IntraSeal is NOT a curing compound.

Impede® IntraSeal will not correct errors resulting from improper placement and finishing. Proper mixing and proportioning of mixes must be incorporated. Mixes should be designed and tested to meet expected performance specifications at the point of placement such as air content, slump, strength, set times, and any other desired result. Premiere Concrete Admixtures is not responsible for incorrect use of **Impede® IntraSeal**.

This product does not contain calcium chloride or chloride containing compounds, and any chloride ions present are in trace amounts resulting from municipal water used during the manufacturing process.

This product is compatible with most other admixtures when added to the mix separately. Always conduct trial batches, prior to job applications, to confirm compatibility and to verify mix results. Contact your technical sales representative before dosing outside of recommended ranges or for assistance with specialty applications.

In all cases, consult the safety data sheet prior to use.

Premiere Concrete Admixtures (herein PCA) warrants its products to be free from defects in material and manufacture. There are no other warranties by PCA of any nature whatsoever, expressed or implied. This information is based on data and knowledge believed to be true and accurate at time of publication and is offered as a resource for the users of our products. PCA shall not be liable in the use of this information and does not warrant the results obtained for any application. PCA shall not be liable for damages of any sort, the use or results of this product and shall not be responsible for conditions outside its control, including but not limited to, other materials, design, inspection, workmanship and field conditions. No statement, recommendation, or other information is intended to infringe on any patent or copyright held by others.