

## ABACRYSTASEAL CEMENT BASED CRYSTALLING WATERPROOFING SYSTEMS

ABACRYSTASEAL is a unique chemical treatment, penetrating into the concrete with capillary effect, which waterproofs and protects concrete in depth.

It meets the requirements of the following standard:

BS EN 1504-2

### FIELD OF APPLICATION

- Construction joints
- Sewage and waste water treatment tanks
- Structures below the groundwater level and subject to water penetration
- Tunnels
- Foundations
- Concrete pipes
- Swimming pools
- Aquariums
- Manholes
- Elevator Pits

### ADVANTAGES

- Penetrates deeply and seals concrete's capillary tracts and shrinkage cracks
- Becomes an integral part of the concrete
- Completely effective against high hydrostatic pressure
- Protects from waterborne corrosive agents
- Protects concrete and steel rebar from deterioration
- Seals minor shrinkage and hairline cracks
- Allows the passage of water vapor from the inside of the structure (the concrete breathes)
- Easy to apply
- Approved for use in contact with potable water

### SURFACE PREPARATION

The substrate should be clean and sound, free of dust, loose particles, grease, oil and primers of previous membrane systems or bitumen. The surfaces must also have an open capillary system for the ABACRYSTASEAL treatment. The substrate must be prepared by suitable mechanical preparation techniques such as high pressure water jetting, wet sandblasting, wire brushing etc. and properly pre-wetted to a saturated surface dry condition. Spalled concrete should be repaired by cutting out to sound concrete. Cracks, holes and honeycombs must be repaired and patched with ABACRYSTASEAL and silica sand (5:2 by weight) prior to application.

### MIXING

Mix one 25 kg bag with approximately 7.5 liters of clean water mechanically using a drill and paddle (max. 600 rpm). Do not mix too wet otherwise the mix may crack and spall when drying. Always add powder to water. Mix until a homogeneous consistency is achieved (3-5 minutes). Do not rework stiff material by adding more water. Mix sufficient material to use within 30 minutes.



موسسه استاندارد و تحقیقات صنعتی ایران  
تاییدیه صلاحیت آزمایشگاه همکار

مرکز ملی تایید صلاحیت ایران  
ISO / IEC 17025

مجوز صادرات  
به اتحادیه اروپا

استاندارد ملی ایران

تهران، خیابان سهروردی شمالی، خیابان شهید قندی غربی، ساختمان شماره ۲۴، واحد ۱ | تلفکس: ۸۷۷۵۴

[www.abadgarangroup.com](http://www.abadgarangroup.com)

[info@abadgarangroup.com](mailto:info@abadgarangroup.com)



واحد تولیدی نمونه ملی

**APPLICATION**

Continuously mix the product during the application, do not dilute and use the hardened mixture. Product should be applied in two layers. Apply ABACRYSTASEAL with a stiff fiber brush. Scrub well into the damp wall filling all pores and finish with final strokes in one direction. Apply the second coat while the first coat is still green, if this is not possible pre-water before application of the second coat. Application should be done first to the wall and then to the floors.

**CURING**

Moisture cure ABACRYSTASEAL treated surfaces 3-4 times per day for a period of 5-7 days starting with fine water fog spraying the day following the completion of ABACRYSTASEAL applications and dehydration should be prevented.

**PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Gray powder  
Mix ratio (water: powder): 3:10  
Density (kg/lit):  $2.1 \pm 0.1$   
Slurry Coating ( $\text{g}/\text{m}^2$ ): 750-1000  
Surface coating temperature ( $^{\circ}\text{C}$ ): +5 - +30

**PACKAGING**

25 kg Bag

**STORAGE & SHELF LIFE**

Shelf life: 12 months in the original package  
Storage condition: should be protected from direct sunlight and moisture. Store bags between  $+10^{\circ}\text{C}$  and  $+30^{\circ}\text{C}$

**HEALTH AND SAFETY**

ABACRYSTASEAL is alkaline, use protective gloves. If gets into eyes clean out with water immediately, and contact a physician. Mix in small quantities. MSDS is available at ABADGARAN GROUP website.

**TECHNICAL SERVICE**

The ABADGARAN INTERNATIONAL GROUP Technical Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.



موسسه استاندارد و تحقیقات صنعتی ایران  
تاییدیه صلاحیت آزمایشگاه همکار

مرکز ملی تایید صلاحیت ایران  
ISO / IEC 17025

مجوز صادرات  
به اتحادیه اروپا

استاندارد ملی ایران

تهران، خیابان سهروردی شمالی، خیابان شهید قندی غربی، ساختمان شماره ۲۴، واحد ۱ | تلفکس: ۸۷۷۵۴

[www.abadgarangroup.com](http://www.abadgarangroup.com)

[info@abadgarangroup.com](mailto:info@abadgarangroup.com)



واحد تولیدی نمونه ملی