

PRODUCT DESCRIPTION

WRI™ is a water-based silane with high-quality for application on concrete and masonry structures to resist the penetration of water-borne aggressive agents such as chlorides. WRI™ penetrates into the substrate and chemically reacts within the pores of the cementitious substrates. It is also used as the primer for concrete protection systems for increased durability of structures in marine environments.

PRODUCT FEATURES

- Treatment is usually invisible not changing the substrate aspect and surface appearance remains unchanged.
- Penetrates deep into the concrete.
- Allows the substrate to breathe (vapour permeable).
- Prevents water and chloride ion penetration into the concrete and protects it from freezethaw effects.
- Ready for use, no dilution on the site, which means constant quality.
- Single layer application.
- Can be applied to damp substrates
- Improves resistance to dirt pick up, and reduces fungal, algal and lichens growth.
- Can be over coated with suitable paints and coatings.
- Water based environmental friendly.

PRODUCT USES

WRI™ can be used on old and new (cured) structures;

- Bridge decks, piers columns and beams.
- Multi-Storey car parks, building facades and balconies.
- Chimeys, cooling towers.
- Concrete pavements and pedestrian ways.
- Airport runways and taxiways.
- As a protective coating to steel reinforcing bars in concrete.
- As a primer for steel substrates prior to suitable top coating.
- Protective treatment of exposed concrete against chlorides and carbonation.
- Water-repellent treatment of masonry walls and facing bricks.
- Surfaces before applying solvent-based, finishing protective coats.

HOW TO USE

SURFACE PREPARATION

Before application of Water Repellent Impregnation WRI™ it is essential to remove all curing agents, dirt, grease, dust, oil, grease, chemical films/coatings and other contaminants. A complete water-blast, sandblast or shot blast may be needed to achieve the desired surface condition.

MIXING:

WRI™ is a ready to use product, stir slightly.



Water Repellent Impregnation- WRI™

APPLICATION:

Temperature of the surface, the air and the material should be between 5 and 35°C during application.

It may be applied by roller, brush or with a knapsack sprayer Conventional Spray.

Do not apply WRI™ when temperatures are expected to fall below 5°C within 24 hours or rain is expected within 4 hour. For best results a dry surface is suggested for maximum penetration. Ensure full coverage of all areas.

TECHNICAL DATA

Consistency	liquid
Colour	White (clear when cured)
Density (23 °C)	100 : 50
Chloride diffusion	7%
Water absorption test	5.3-8.3 %
Flash point	>93 celcius
Application Temperature	+5 to +35 °C

HANDLING

Approved personal protection equipment should be worn at all times. Particle mask is recommended for possible airborne particles. Gloves are recommended when handling mortar to avoid skin irritation. Safety glasses are recommended to prevent eye irritation. Wear chemical resistant clothing/gloves/goggles. Ventilate area. In absence of adequate ventilation, use properly fitted respirator.

STORAGE

Store in dry, under normal warehouse conditions between 5°C and 35°C. It should be stored under cover and clear of the ground. Protect from freezing

FIRST AID

In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with plenty of water; contact physician immediately. For respiratory problems, remove to fresh air. Wash clothing before reuse.

DISCLAIMER OF LIABILITY

AFZIR, LLC warrants its products to be free from manufacturing defects. Buyer determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to replacement of product. Any claim for breach of this warranty must be brought within six months of the date of purchase.

WRI™

Water Repellent Impregnation

AFZIR
Advanced Solutions
Strengthening Company

www.afzir.com - Retrofitting Products

AFZIR shall not be liable for any consequential or special damages of any kind, resulting from any claim or breach of warranty, breach of contract, negligence or any legal theory.

The Buyer, by accepting the products described herein, agrees to be responsible for thoroughly testing any application to determine its suitability before committing to production.