



**MAXRITE**®  
**PASSIVE**

## **CORROSION INHIBITOR PRIMER FOR STEEL REINFORCEMENT CONCRETE**

### **DESCRIPTION**

MAXRITE PASSIVE is a specially designed one-component cement-based primer with corrosion inhibitors. Once mixed with water, can be easily applied by brush or spray equipment to provide a high performance anti-corrosion protection for steel reinforcement in structural concrete.

### **APPLICATION FIELDS**

- Protection against corrosion of reinforcing steel in the repair of all concrete structures in bridges, marine projects, underground pipelines, foundations, industrial buildings, cooling towers, reservoirs, retaining walls, etc.
- Preventive protection for new or old steel reinforcement against attack from carbonation process, marine environment, de-icing salts, aggressive pollution, etc.
- Protection of reinforcing steel corroded by insufficient cover and poor quality concrete.

### **ADVANTAGES**

- Corrosion inhibitors prevent from further corrosion extending considerably the service life of the structure.
- It forms a hard passivating layer on steel protecting against water, chloride and carbon dioxide diffusion.
- Excellent adhesion to steel.
- Unaffected by humidity.
- Do not require dry surfaces to be applied.
- Environmentally friendly and odour-free, suitable for poor ventilated areas.
- Single component, only requires water for mixing.

### **APPLICATION INSTRUCTIONS**

#### **Surface preparation.**

Remove loose and unsound concrete around rusting reinforcement. Enough concrete must be removed on the backside of the reinforcing bars to allow space for cleaning treatment.

The surface of the steel must be clean, free of oils, greases, dirt, dust, old coatings or any contaminant. Remove completely rust stains or flakes all around the steel reinforcement treating by sand-blasting, shot-blasting or combination of water-abrasive blasting to Sa 2½ grade (near white metal finish) in accordance with SIS 055900 or equivalent.

#### **Mixing.**

MAXRITE PASSIVE is ready to use for mixing only with clean water, free from contaminants, manually or mechanically with a low speed drill (400 – 600 rpm), to achieve a lump-free and uniform consistency. A 22 kg bag of MAXRITE PASSIVE requires between 5.72 and 6.6 litres

(28% ± 2) of water. For spray application and high temperatures can be slightly increased the mixing water.

Pot-life can take from 20 - 40 min. at 20 °C. If it is required, re-mix to keep its workability but do not add more water.

### **Application.**

Apply by brush or spray equipment two continuous coats, thickness per coat should be 1 mm range, ensuring full coverage of the surface, and allow the first coat dry to touch between applications (about 1 - 2 hours at 20 °C).

### **Application temperature.**

The recommended temperature application is 5 °C to 35 °C. Do not apply if lower temperatures are expected within 24 hours after application. Do not apply on frozen and frosted surfaces.

### **Curing.**

Do not apply MAXRITE PASSIVE if rain is expected within 6-8 hours after application.

With high temperatures, prevent fast drying during the first hours protecting against strong winds and direct sunlight. Also a wet curing can be done 2 hours after the application.

Application of structural repair mortars can be done when MAXRITE PASSIVE set (3 – 4 hours at 20 °C).

### **Cleaning tools.**

Tools and equipments can be cleaned with water immediately after application. Once the material hardens, it can only be removed by mechanical methods.

## **CONSUMPTION**

Total consumption is 2.6 kg/m<sup>2</sup> approximate for a 2 mm recommended thickness (1.3 kg/m<sup>2</sup> per coat and 1 mm thickness). As an example, per 1 kg of product, 7.7 lineal metres of a 16 mm diameter rebar can be coated until 2 mm thickness.

This estimative consumption can vary depending on substrate conditions, a trial on-site is recommended to determine it exactly.

## **TECHNICAL DATA**

<b>Appearance</b>	Grey powder
<b>Mixing water (% by weight product)</b>	28 ± 2
<b>Apparent density of powder (gr/cm<sup>3</sup>)</b>	0,91 ± 0,05
<b>Density of hardened material (gr/cm<sup>3</sup>)</b>	1,80 ± 0,05
<b>Pot – life (min. at 20 °C)</b>	30 - 40
<b>Setting time (hours, at 20 °C)</b>	3 - 4
<b>Consumption approx. (2 mm thickness, kg/m<sup>2</sup>)</b>	2.6
<b>Adhesion on steel at 28 days, ASTM D-4541 (Mpa)</b>	> 2.50

## **PACKAGING**

MAXRITE PASSIVE is supplied in 22 kg bags.

## STORAGE

Twelve months in its original unopened packaging, in a dry covered place, protected from frost and temperature above 5°C.

## SAFETY AND HEALTH

MAXRITE PASSIVE is non-toxic but as all cement-based product, it is an abrasive compound. Rubber gloves and safety goggles must be used for mixing and applying. If any of the mixture gets into eyes, rinse with clean water but do not rub. In case of skin contact, rinse thoroughly with clean water and soap. If irritation continues, consult medical assistance. There is available MAXRITE PASSIVE safety data sheet by request.

## GUARANTEE

The information contained in this leaflet is based on our experience and technical knowledge, obtained through laboratory testing and from bibliographic material. DRIZORO reserves the right to introduce changes without prior notice. Any use of this data beyond the purposes expressly specified in the leaflet will not be the Company's responsibility unless authorised in written by us. We shall not accept responsibility exceeding the value of the purchased product.



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Company certificated: ISO 9.001 & ISO 14.001

