



# MAXSEAL<sup>®</sup>

## INHIBITOR ADMIX



### MIGRATING CORROSION INHIBITOR LIQUID ADMIXTURE FOR CONCRETE

#### DESCRIPTION

**MAXSEAL<sup>®</sup> INHIBITOR ADMIX** is a liquid concrete admixture based on amine-carboxilate, to be added directly in the mixing water for the anticorrosion protection of steel reinforcements and to increase durability of concrete exposed to aggressive environments.

Once added to the concrete batch, the active compounds of **MAXSEAL<sup>®</sup> INHIBITOR ADMIX** come in contact with the steel reinforcement to create a protective barrier against water and chlorides that inhibits the corrosion process and increases the durability of the concrete structure.

#### APPLICATIONS

- Protection and corrosion control of reinforcement steel in structural concrete, against carbonation processes, chloride attack, de-icing salts, acid rain, etc.
- Increase the service life of concrete exposed to aggressive environments such as marine environment, industrial environment, freezing cycles, etc.
- Anticorrosion protection for all types of concrete, poured, post-stressed, pre-stressed, precast, etc in civil infrastructures, storage silos, sewage treatment plants, underground structures, etc.

#### ADVANTAGES

- Reduces 5 times the corrosion speed or, in other words, extends 5 times the service life of the treated structures, reducing repair and maintenance costs. Proven according to ASTM G109.
- Migratory capacity of penetrate by vapor diffusion through the capillaries of the concrete reaching the steel reinforcement, to protect against corrosion induced by the presence of chlorides.
- Double action inhibitor, protecting both anodic and cathodic areas of the steel. Creates a barrier on the rebars preventing access of water and chlorides.
- Allows the water vapor diffusion and does not create a film on concrete surface

- Compatible with all types of Portland cements. It can also be added to repair or patching mortars.
- Does not affect adversely the properties of fresh or cured concrete, such as setting time, workability, compressive strength, etc.
- Very simple use, only to be added with the mixing water.
- Free from nitrates or nitrites in its composition.
- Non-toxic, solvent-free and eco-friendly.

#### APPLICATION INSTRUCTIONS

**MAXSEAL<sup>®</sup> INHIBITOR ADMIX** is supplied ready to use and is added directly to the mixing water or to the concrete mix in its last stage of mixing.

#### CONSUMPTION

Estimated consumption of **MAXSEAL<sup>®</sup> INHIBITOR ADMIX** is 1 litre per m<sup>3</sup> of concrete.

Other dosages are allowed with previous testing and according to the final use of concrete.

#### IMPORTANT INDICATIONS

- **MAXSEAL<sup>®</sup> INHIBITOR ADMIX** is compatible with most types of concrete admixture from **BISEAL<sup>®</sup>** range, such as superplasticizers, air-entrainers, setting retarders, etc. However, each admixture should be added separately in the concrete mix.
- For other uses not specified on this Technical Bulletin consult our Technical Department.

#### PACKAGING

**MAXSEAL<sup>®</sup> INHIBITOR ADMIX** is supplied in 25 liters can and 220 liters drum.

#### STORAGE

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

## **SAFETY AND HEALTH**

**MAXSEAL® INHIBITOR ADMIX** is not a toxic product but eye contact and skin contact should be avoided. Use safety goggles and rubber gloves. In case of skin contact, wash with luke-warm water and soap. In case of eye contact, rinse thoroughly with water. If irritation persists, seek medical assistance.

It is not classified as dangerous material for transportation and it is non-flammable.

Safety Data Sheet for **MAXSEAL® INHIBITOR ADMIX** is available by request.

The final user must do disposal of the product and its empty packaging and according to official regulations.

# MAXSEAL® INHIBITOR ADMIX



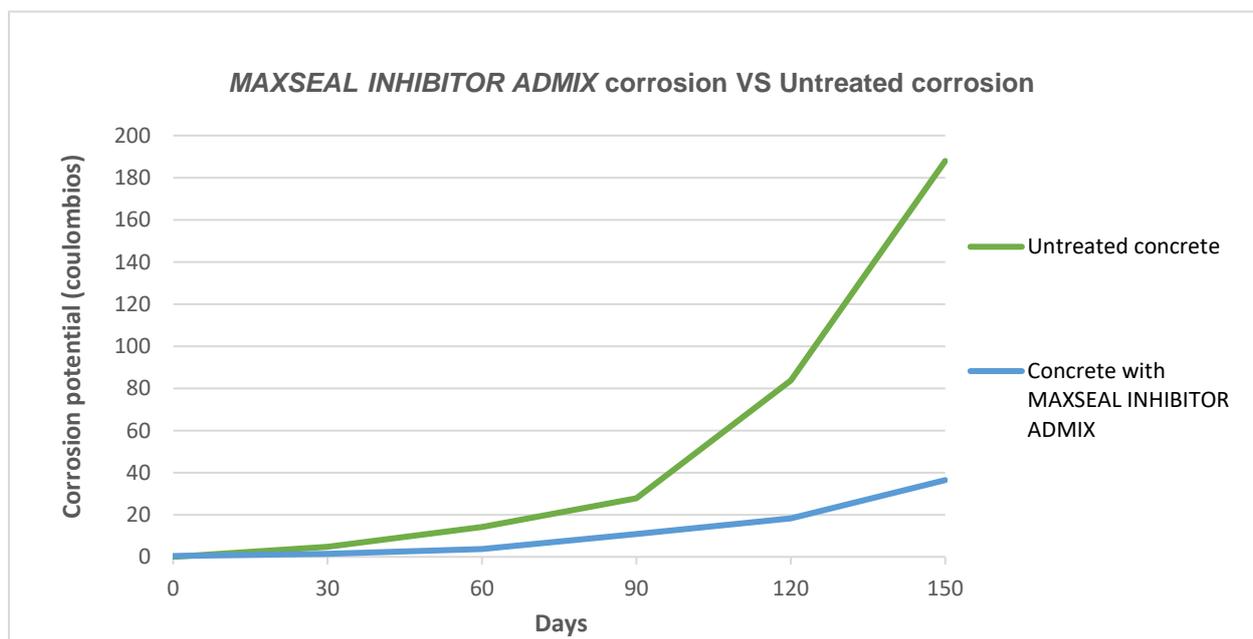
## TECHNICAL DATA

Product characteristics		
CE Marking, EN 1504-7		
Description. Corrosion inhibiting liquid admixture by migrating effect for concrete. Principles / Methods. Painting reinforcement with coatings containing active pigments (Principle 11-CA / 11.1), Painting reinforcement with barrier coatings (Principle 11-CA / 11.2).		
Appearance	Colourless liquid/ Light yellowish	
Density at 20°C, (g/cm <sup>3</sup> )	1,03 ± 0,05	
pH	10 ±1	
Solubility in water	Complete	
Concrete characteristics with and without additive		
	Concrete without additive	Concrete with <b>MAXSEAL INHIBITOR ADMIX</b> (1 l/m <sup>3</sup> )
Settlement. Cone of Abrams, UNE EN 12350-2	40 mm	50 mm
Concrete setting time UNE 83-311-86		
- Initial:	190 min	200 min
- Final:	245 min	265 min
Compressive strength, UNE EN 12390-3 (MPa)	30,1	32,2
Protection against corrosion		
Protection against corrosion after cycles of water immersion and salt spray, EN 15183	No corrosion presence (meets requirements)	
Reduction of corrosion speed in concrete, ASTM G109	Up to 5 times (80,61%)	
Consumption		
Consumption in concrete	1 litre per m <sup>3</sup> of concrete	

## CORROSION TEST IN CONCRETE, ASTM G109

ASTM G109 - Standard Test Method for Determining Effects of Chemical Admixtures on Corrosion of Embedded Steel Reinforcement in Concrete Exposed to Chloride Environments.

ASTM G109 - RESULTS			
Time	Average corrosion potential (coulombios)		Corrosion reduction
	Untreated concrete	Concrete with <b>MAXSEAL® INHIBITOR ADMIX</b>	
0 days	0	0,41	-
30 days	4,84	1,47	69,63%
60 days	14,17	3,75	75,53%
90 days	27,86	10,83	61,13%
120 days	83,81	18,26	78,21%
150 days	187,92	36,44	80,61%



## **GUARANTEE**

The information contained in this leaflet is based on our experience and technical knowledge, obtained through laboratory testing and from bibliographic material. **DRIZORO<sup>®</sup>, S.A.U.** 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 by us. We shall not accept responsibility exceeding the value of the purchased product. The data shown on consumptions, measurement and yields are for guidance only and based on our experience. These data are subject to variation due to the specific atmospheric and jobsite conditions so reasonable variations from the data may be experienced. In order to know the real data, a test on the jobsite must be done, and it will be carried out under the client responsibility. We shall not accept responsibility exceeding the value of the purchased product. For any other doubt, consult our Technical Department. This version of bulletin replaces the previous one.



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