



Surface Treatment

MIGRATORY CORROSION INHIBITOR (MCI®) PRODUCTS FOR CONCRETE



MCI® Wall Defense



DESCRIPTION

MCI Wall Defense is a clear, silicone elastomer-based anti-graffiti coating that can be applied to exterior concrete, masonry, and metal surfaces. It is designed to be used over various types of masonry that are both coated and uncoated.

MCI Wall Defense is a permanent coating that does not need to be recoated after graffiti removal like alternative sacrificial systems.

After 24 hours of first applying the coating, it can be tagged without affecting the graffiti resistance. MCI Wall Defense can be recoated with itself at any time. Overspray should not affect surrounding plant life or electrical boxes.

PRIMARY APPLICATIONS

- DOT
- Schools and Universities
- Port authorities
- Transit authorities
- Transportation - railcars
- Parking decks
- Urban commercial properties

ADVANTAGES

- Excellent graffiti resistance
- Breathable
- Excellent exterior durability
- VOC Compliant
- High UV Resistance
- Excellent gloss retention
- Elastomeric properties
- Hydrophobicity

SUBSTRATES PROTECTED

Concrete
Masonry
Metal
Wood

PHYSICAL PROPERTIES

Appearance	Cloudy viscous liquid
NVC	75-80% by weight
Shelf life	1 year
Density	7.8-8.3 lb/gal (0.93-0.99 kg/l)
Coverage Rate	80-100 ft ² /gal (2.0-2.5 m ² /l)
VOC	201 g/L
(EPA Method 24A)	1.68 16 lb/gal
Expected Coating Life	4-6 years when power washed once a week 5-10 years when power washed once a month

PACKAGING AND STORAGE

MCI Wall Defense is packaged in 5 gallon pails, 55 gallon drums, or 275 gallon totes.

PERFORMANCE DATA

DFT	12-15 mils (300-375 microns)
WFT	15-25 mils (375-625 microns)
QUV Gloss Retention	1000+ hours, 80%
ASTM D 1653	18 perms
(Water vapor transmission)	
Gloss	30°-50°

DRY TIME

Dry to touch	2 hours at 77°F (25°C)
Tack free	4 hours at 77°F (25°C)
Tag time	after 24 hours at 77°F (25°C)
Full cure	7 days at 77°F (25°C)

ASTM D 7089 Graffiti Removal Testing		
GRAFFITI	RATING	% REMOVAL
Black solvent based spray paint	Cleanability 1	100%
Blue solvent based spray paint	Cleanability 1	100%
Red solvent based spray paint	Cleanability 1	100%
Black solvent based marker	Cleanability 1	75%
Blue solvent based marker	Cleanability 1	50%
Red solvent based marker	Cleanability 1	75%
Black water based marker	Cleanability 1	100%
Blue water based marker	Cleanability 1	100%
Red water based marker	Cleanability 1	100%
Black solvent based marker	Cleanability 2	100%
Blue solvent based marker	Cleanability 2	80%
Red solvent based marker	Cleanability 2	100%

SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.



MIGRATING CORROSION INHIBITORS
FROM GREY TO GREEN

Masonry

For surfaces prepared by water jetting/blasting, the SSPC-Vis 4(1)/NACE No. 7 standards for surface cleanliness should be followed.

The visual surface cleanliness must conform, at minimum, to the Vis WJ-4 condition directly after water jetting/blasting.

Previously Painted

If previously painted surface is in sound condition, clean surface of all foreign material. Smooth, hard, or glossy coatings should be dulled by abrading the surface.

APPLICATION

MCI Wall Defense may be applied by spray, brush, or roller at temperatures over 40°F (5°C) and wind less than 5 mph. A film thickness of 12-15 dry mils (300-375 microns) is recommended on new or uncoated cement. The coating dries to touch in 2 hours. Any tagging is removed with a cold water pressure cleaning of ~ 1200 psi (80 bar); no special cleaning agents are needed. Landscaping surrounding project should be finished prior to application to minimize contamination of the coating.

APPLICATION EQUIPMENT

The following is a guide. Changes in pressures and tip size may be needed for proper spray characteristics. Always purge spray equipment before use.

Airless spray	
Pressure	3200-3600 psi (220-248 bar)
Hose	3/8"
Tip	.013"-.017"
Filter	60 mesh

Brush	
Brush	Natural Bristle
Reduction	None required

Roller	
Cover	3/8"-1/2" woven with solvent resistant core
Reduction	None required

FOR INDUSTRIAL USE ONLY

KEEP OUT OF REACH OF CHILDREN

KEEP CONTAINER TIGHTLY CLOSED

NOT FOR INTERNAL CONSUMPTION

CONSULT SAFETY DATA SHEET FOR MORE

INFORMATION

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