



# MASONS SUPPLY COMPANY

OREGON

WASHINGTON

## MASCO SPRAY ETCH | REG/DEEP

### DESCRIPTION

MASCO SPRAY ETCH is an economical, easy-to-use method for producing beautiful exposed aggregate concrete flatwork with consistent results that is available in two strengths: regular (red color) and deep (blue color). It temporarily retards the setting of portland cement at the surface while concrete below the surface cures normally. The surface concrete can then be washed away, exposing the aggregate.

### PRODUCTS

MASCO SPRAY ETCH REGULAR (red color)

Light etch, recommended for ¼" to 3/8" aggregate size

MASCO SPRAY ETCH DEEP (blue color)

Deep etch, recommended for ½" and over aggregate size

### USAGE

- Exposes aggregate on floor slabs, sidewalks, tilt-up and precast panels, or any normal horizontal concrete
- Produces roughened bonding surfaces for subsequent concrete toppings
- Roughens horizontal surfaces for construction joints in power plants, dams, and other civil engineering projects

### SURFACE PREPARATION

Use a concrete mix design that will satisfy both structural and architectural requirements. This may include an integral color and a special aggregate. Place concrete and screed, float, or trowel level. Do not tamp or overwork the top surface, as this drives the aggregate away from the top surface and diminishes the depth and uniformity of exposure. Use a wood float or bull float to work the top surface. Do not overwork the surface with a steel trowel as this tends to seal the top surface, reducing the penetration of the retarder. Additional aggregate may be seeded into the top surface and should be carefully worked in making sure the aggregate is completely surrounded by cement paste. (Use of a roller jitter bug is very helpful in this operation.)

### APPLICATION

*Step 1:* Mix MASCO SPRAY ETCH thoroughly before each use.

*Step 2:* As soon as the bleed water has disappeared or the concrete surface has lost its sheen. (usually 30 minutes or less), uniformly apply MASCO SPRAY ETCH with a low pressure pump-up garden sprayer at a rate of 100–150 sq. ft./gal. Avoid puddles and overspray.

*Step 3:* Immediately after applying MASCO SPRAY ETCH, cover the fresh concrete with black plastic sheeting, securing around the edges to prevent ballooning. The plastic sheeting should be in direct contact with the top surface of the freshly placed concrete.

*Note:* In some cases the retarded matrix can be washed off the same day the concrete is poured, however timing is critical and many factors must be considered in order to achieve an

*acceptable uniform finish. Anything which affects the set of the concrete, such as ambient temperature, wind, whether the concrete is in full sun or shade, and whether the surface is flat or on a slope. With so many variables affecting the set of the concrete, it is impossible to give a time frame for determining when to wash off the retarded matrix.*

*Step 4:* As soon as the concrete has hardened sufficiently and is strong enough to support the weight of a person, wash off a small area to check the depth of etch. If the etch is too deep, wait 30 minutes and test again. When the etch is sufficient, hose off the retarded matrix with water and a stiff broom to expose the aggregate. Do not use excessive force in removal, since this may undermine the exposed aggregate profile. High pressure water is more efficient and should be used when available. Expose one section at a time, removing plastic sheeting and washing surface to expose aggregates. On hot, windy days, after uncovering a section mist the entire area with water to prevent flash setting. Then start washing to expose aggregates.

*Step 5:* To highlight the natural color of aggregate, wait 14 days approximately from placement depending on weather conditions, remove excess cement film from the surface with an architectural concrete cleaner. Let dry thoroughly and seal with MASCO ACRYLIC SEALER.

### COVERAGE

100-150 sq. ft./gal.

### LIMITATIONS

- Not for vertical concrete or form application
- Do not use on concrete containing calcium chloride or other set accelerators
- Protect from freezing

### CAUTIONS

- Must be applied immediately after surface or bleed water disappears. Delay in application will affect depth and uniformity.
- Determining when to wash off the retarded matrix is dependent on anything which affects the set of the concrete such as ambient temperature, wind, whether the concrete is in full sun or shade or whether the surface is flat or on a slope.
- In hot or windy conditions, the retarded matrix may need to be removed the same day.
- Do not overwork the surface with a steel trowel, as this tends to seal the top surface and reduces the penetration of the retarder.
- Always perform test panels at your plant or jobsite.
- Do not store more than 2-3 hours in metal sprayers.

**PACKAGING**

1 gallon jugs, 5 gallon pails, 55 gallon drums

*Shelf life is 1 year in original, unopened container.*

**CLEANUP INSTRUCTIONS**

Application equipment should be cleaned immediately with water. Any MASCO SPRAY ETCH remaining on the dried formwork can easily be removed by scrubbing with water and a wire brush. Any material that has not been in contact with concrete should be neutralized with a soda solution before removal. Clean formwork thoroughly before reusing.

**FIRST AID**

*Eyes:* Flush immediately with water for at least 15 minutes, lifting upper and lower lids occasionally. Seek immediate medical attention.

*Inhalation:* Remove victim to fresh air.

*Skin Contact:* Remove any contaminated clothing. Solvents should not be used, as they carry the irritant into the skin. Wash skin thoroughly with soap and water for at least 15 minutes. If irritation occurs, seek medical attention.

**TECHNICAL SERVICE**

For application procedures or surface conditions not specified above, please contact:

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