

Compatibility study of Oxivir 1, Oxivir Five 16, Oxivir TB, Avert, Virex Plus, and Virex TB with ATI Decorative Laminate

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Background:

A decorative laminate from ATI was tested for compatibility with Oxivir 1, Oxivir Five 16, Oxivir TB, Avert, Virex Plus, and Virex TB. Wipe testing was performed on with Oxivir 1, Oxivir TB, and Avert while soak tests were performed on solutions of Oxivir Five 16, Virex Plus, and Virex TB. Visual assessment was used to evaluate compatibility. The substrate is as follows:



ATI Decorative Laminate

Test Method:

Two different testing regimes are used, one for wipes and another for disinfectant solutions. The method for wipes is simply to wipe the surface 250 times and assess. Solution tests are expose the surface to RTU strength product for 20 minutes, subsequently wiping the surface free of liquid and allowing to air dry for 5 minutes and repeating for 10 cycles for a total exposure time of 200 minutes. The second solution test soaks a coupon of each substrate in RTU strength solution for 250 minutes. Pictures and visual assessment are used evaluate.

Soak Test

Materials and Apparatus:

- 2-150 ml beaker
- Paper towels
- Digital camera
- 1 surface sample; ATI Decorative Surface.
- 200 ml of RTU strength Virex Plus, Virex TB, and Oxivir Five 16

Test Protocol:

1. Plastic sample preparation.

- Prepare test substrate samples that are at least 1" x 1".
- One coupon for each substrate and for each test solution.

2. Exposure to liquid disinfectant.

- Place 1 coupon of each substrate type in a standing position into a 250mL beaker.
- Add liquid disinfectant to the glass beaker until about coupon is completely submerged.
- Remove coupons after 250 minutes.
- After completion, rinse each sample with tap water and remove excess liquid with paper towel.
- Allow to air dry.
- Take photo after drying.

Wipe Test

Materials and Apparatus:

- Clear packing tape
- Digital camera
- 4 surface samples; EOS Clay Tile, EOS Brown Tile, EOS Gray Stone, and EOS Brown Stone.
- 250 each of Oxivir 1, Avert, and Oxivir TB wipes

Test Protocol:

1. Plastic sample preparation.

- Prepare one of each surface for each wipe type being tested, ensure minimum surface size is at least 1" x 1" or larger.
- Cover half of each sample surface with clear packing tape.

2. Exposure to liquid disinfectant.

- Wipe uncovered half with saturated wipe.
- Allow to air dry.
- Repeat 250 times.
- After completion, rinse each sample with tap water and remove excess liquid with paper towel.
- Allow to air dry.
- Take photo after drying.

Evaluation Process:

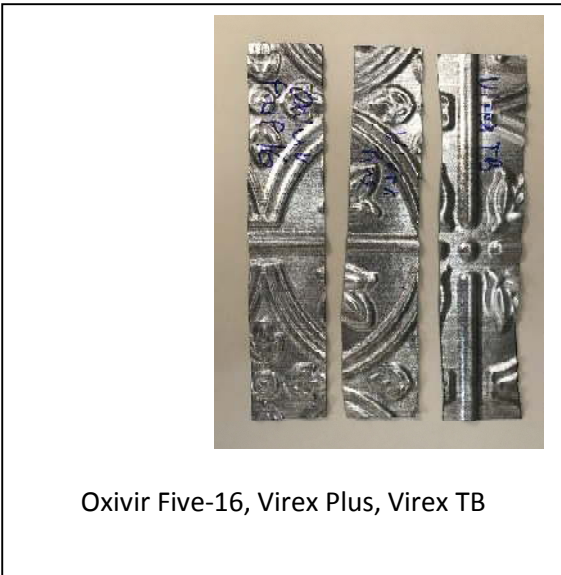
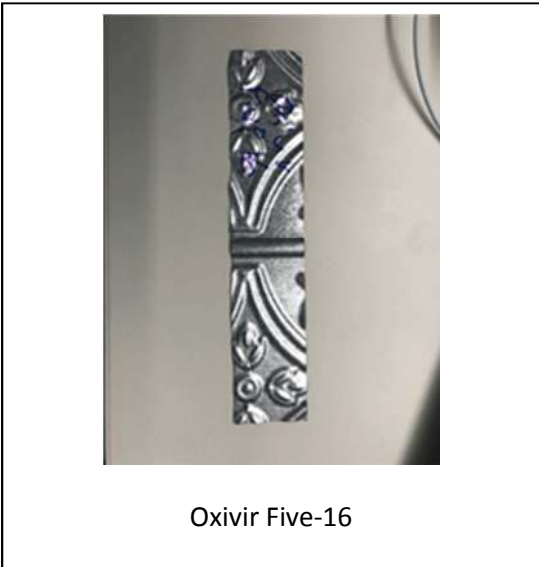
1. Characterization of surface damage.
 - Visual assessment used the following scale:

Damage Rating (0-4)	Description
0	No Damage
1	Slight Damage
2	Definite Surface Alteration
3	Surface is alter to the point of surface damage
4	Severe Damage , surface degradation or drastic change from initial color and structure

Results:

Soak Test

250 minute Soak	Virex Plus	Oxivir Five 16	Virex TB
ATI Laminate	0	0	0



Oxivir Five-16, Virex TB and Virex Plus passed the soak on the ATI laminate. No visible changes in appearance or tactile properties were observed.

Wipe Test

Wipe Test (250)	Oxivir TB	Oxivir 1	Avert
ATI Laminate	0	0	0

Oxivir TB



Oxivir 1



Avert



Oxivir TB, Oxivir1, and Avert passed the 250 wipe test on ATI laminates. No visible changes in appearance or tactile properties were observed.

Overall, ATI laminate products should have no issues with any Diversey disinfectant products.