

Application Department

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Material compatibility of Trespa TopLab® HPL surfaces with schülke disinfectants (AT 4290)

Introduction

The material compatibility of TopLab® High Pressure Laminate (HPL) surfaces with several schülke disinfectants is being tested.

Material and methods

- | | | |
|---|---------------|-----|
| - TopLab® <i>PLUS</i> T03.0.0
(top side white, reverse side black) | Crystal White | (1) |
| - TopLab® <i>PLUS</i> T90.0.0
(top side black, reverse side black) | Crystal Black | (2) |
| - TopLab® <i>VERTICAL</i> K03.0.0
(top side white, reverse side black) | Satin White | (3) |
| - TopLab® <i>VERTICAL</i> K90.0.0
(top side black, reverse side black) | Satin Black | (4) |
| - TopLab® <i>BASE</i> E0-00
(top side white, reverse side black) | Crystal White | (5) |
| - TopLab® <i>BASE</i> E0-09
(top side black, reverse side black) | Crystal Black | (6) |

Manufacturer

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Surface disinfectants for medical applications

- | | | |
|---------------------|-------------------------|------------------------|
| - terralin® protect | cationic | 2.0 % in tap water (1) |
| - perform® | active oxygen (caroate) | 2.0 % in tap water (2) |
| - pursept® AF | cationic | 2.0 % in tap water (3) |
| - mikrozid® AF | alcohol (60 %) | ready-to-use (4) |

- | | | |
|-----------------------|--------------------------------|------------------------|
| - mikrozyd® sensitive | cationic | ready-to-use (5) |
| - terralin® PAA | active oxygen (peracetic acid) | 2.0 % in tap water (6) |
| - mikrozyd® universal | alcohol (30 %) | ready-to-use (7) |

Surface disinfectants for industrial hygiene

- | | | |
|-----------------------------------|--------------------------------|------------------------|
| - perform® classic concentrate QB | cationic | 2.0 % in tap water (8) |
| - perform® classic concentrate GA | aldehyde | 2.0 % in tap water (9) |
| - perform® sterile PAA | active oxygen (peracetic acid) | ready-to-use (10) |
| - perform® classic alcohol IPA | alcohol (63 %) | ready-to-use (11) |

Surface cleaner for industrial hygiene

- | | | |
|-------------------------------|-----------|-------------------|
| - perform® sterile cleaner ND | non-ionic | ready-to-use (15) |
|-------------------------------|-----------|-------------------|

Surface disinfectants for kitchen hygiene

- | | | |
|--------------------|----------|-------------------------|
| - quartasept® plus | cationic | 1.5 % in tap water (12) |
| - quartacid® plus | cationic | 3.0 % in tap water (13) |

Products which may accidentally come into contact with the tested surfaces

Highly alkaline cleaner

- | | | |
|------------|----------|-------------------------|
| - mucasol® | cationic | 2.0 % in tap water (14) |
|------------|----------|-------------------------|

Hand disinfectant

- | | | |
|-------------------|----------------|-------------------|
| - desderman® pure | alcohol (78 %) | ready-to-use (16) |
|-------------------|----------------|-------------------|

Skin antiseptic

- | | | |
|----------------------------------|----------------|-------------------|
| - kodan® tincture forte coloured | alcohol (55 %) | ready-to-use (17) |
|----------------------------------|----------------|-------------------|

Wound and mucous membrane antiseptic

- | | | |
|---------------|------------|-------------------|
| - octenisept® | octenidine | ready-to-use (18) |
|---------------|------------|-------------------|

Reference

- | | | |
|-------------|---|---|
| - tap water | - | - |
|-------------|---|---|

Wetting test (M0063-01)

This test is performed in line with the DIN EN ISO 2812-3 "Paints and varnishes - Determination of resistance to liquids" standard.

This test simulates the long term contact of a surface with product solutions. A microfiber pad soaked in product solution is applied onto the surface and covered with a watchglass. After different contact times, the surface to be tested is investigated for changes in appearance (e.g. glossiness, color) and consistency (e.g. stickiness).

Drying test (M0064-01)

During this test, the spreading of the product over the surface and its local increase in concentration during drying is taken into account. About 0.1 ml of product solution is being applied to the surface

and left to dry at room temperature. The surfaces are being assessed for the formation of edges, discolorations and matting during drying and after wiping off the product residues.

In addition, if visible residues are present on the tested surface after completion of the wetting and the drying tests, it is checked whether these residues be removed simply by wiping the affected area with a moist wipe wetted with water.

Results

Figure 1 shows the TopLab^{®PLUS} T03.0.0 Crystal White surface after completion of the wetting and drying tests and after 48 hours of drying.



Fig. 1. TopLab^{®PLUS} T03.0.0 Crystal White after completion of the tests and 48 h drying (wetting test - white markers, drying test - yellow markers)

During the wetting test as well as during the drying test, no visible changes occur to the material with any of the tested products.

Figure 2 shows the TopLab^{®PLUS} T90.0.0 Crystal Black surface after completion of the wetting and drying tests and after 48 hours of drying.

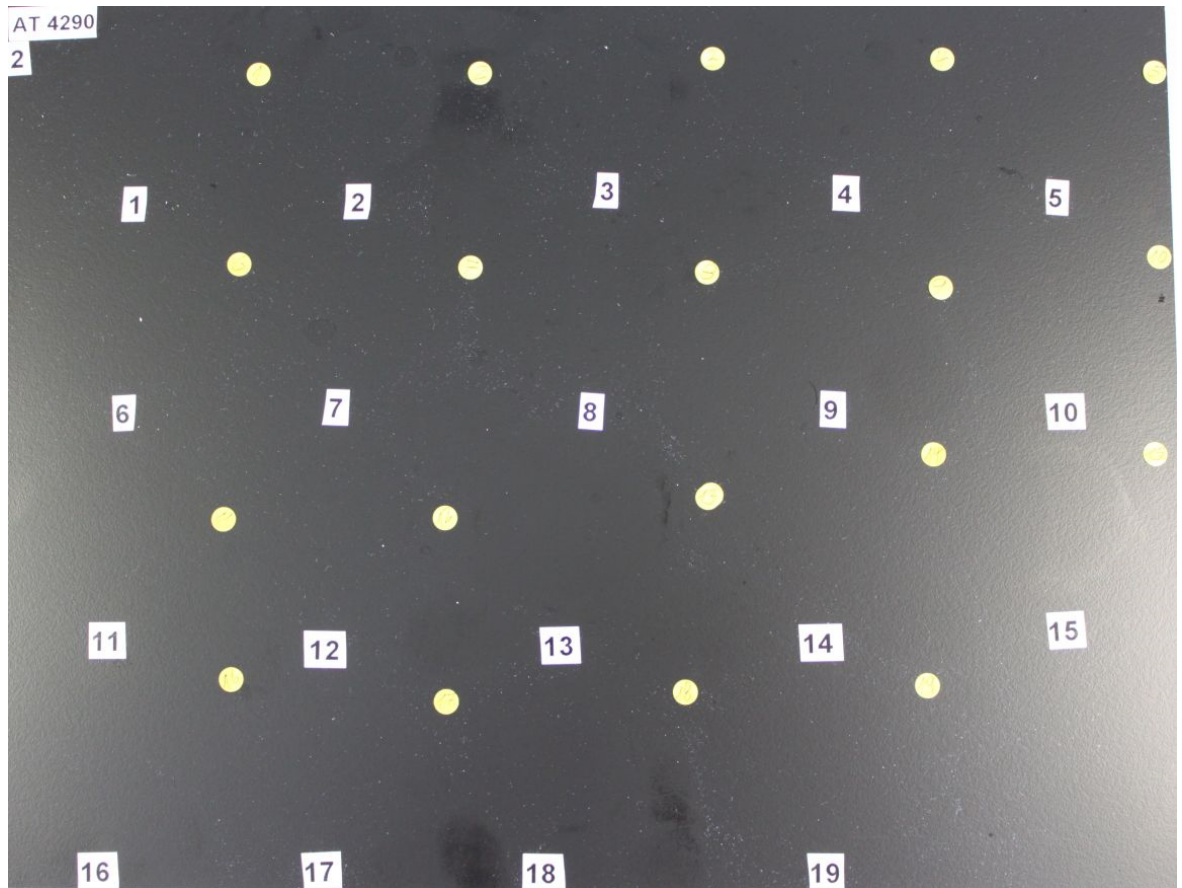


Fig. 2. TopLab^{®PLUS} T90.0.0 Crystal Black after completion of the tests and 48 h drying (wetting test - white markers, drying test - yellow markers)

During the wetting test as well as during the drying test, no visible changes occur to the material with any of the tested products.

Figure 3 shows the TopLab[®]VERTICAL K03.0.0 Satin White surface after completion of the wetting and drying tests and after 48 hours of drying.

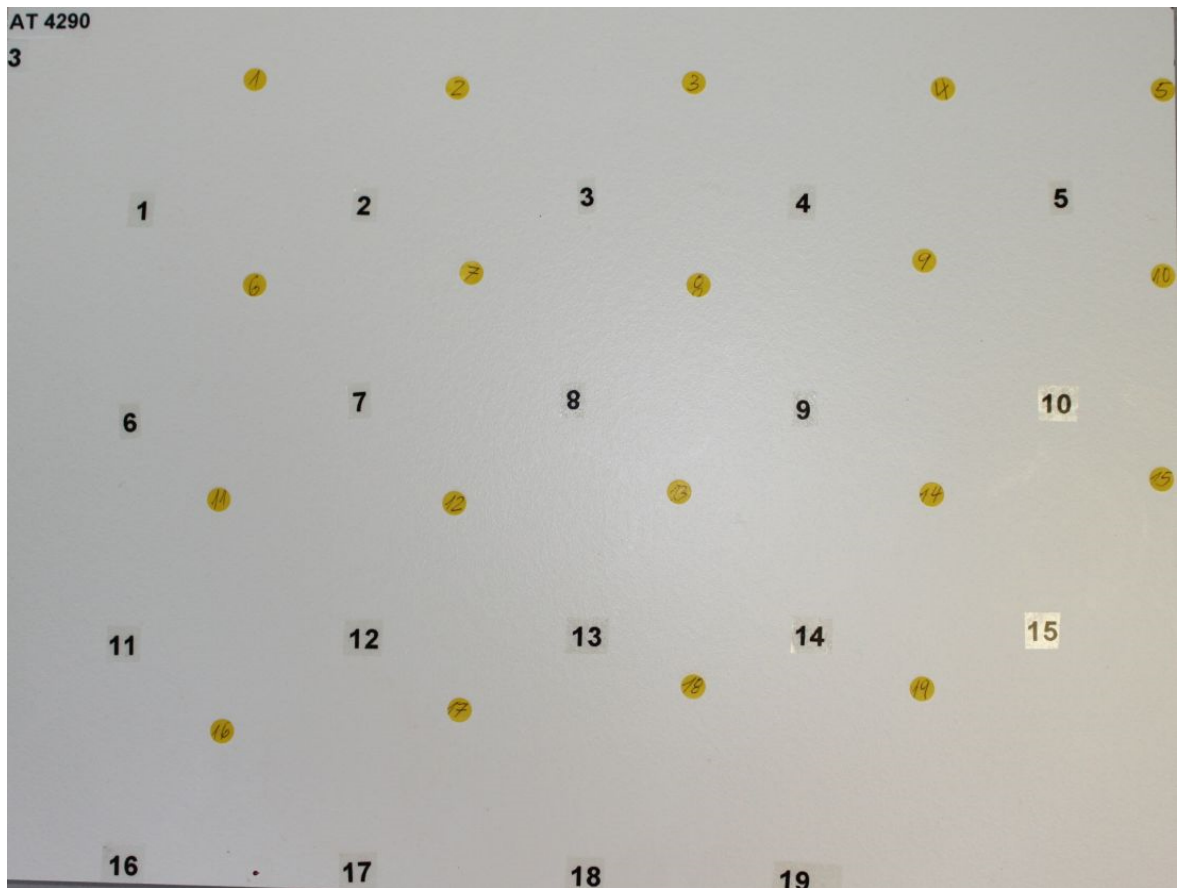


Fig. 3. TopLab[®]VERTICAL K03.0.0 Satin White after completion of the tests and 48 h drying (wetting test - white markers, drying test - yellow markers)

During the wetting test as well as during the drying test, no visible changes occur to the material with any of the tested products.

Figure 4 shows the TopLab®VERTICAL K90.0.0 Satin Black surface after completion of the wetting and drying tests and after 48 hours of drying.

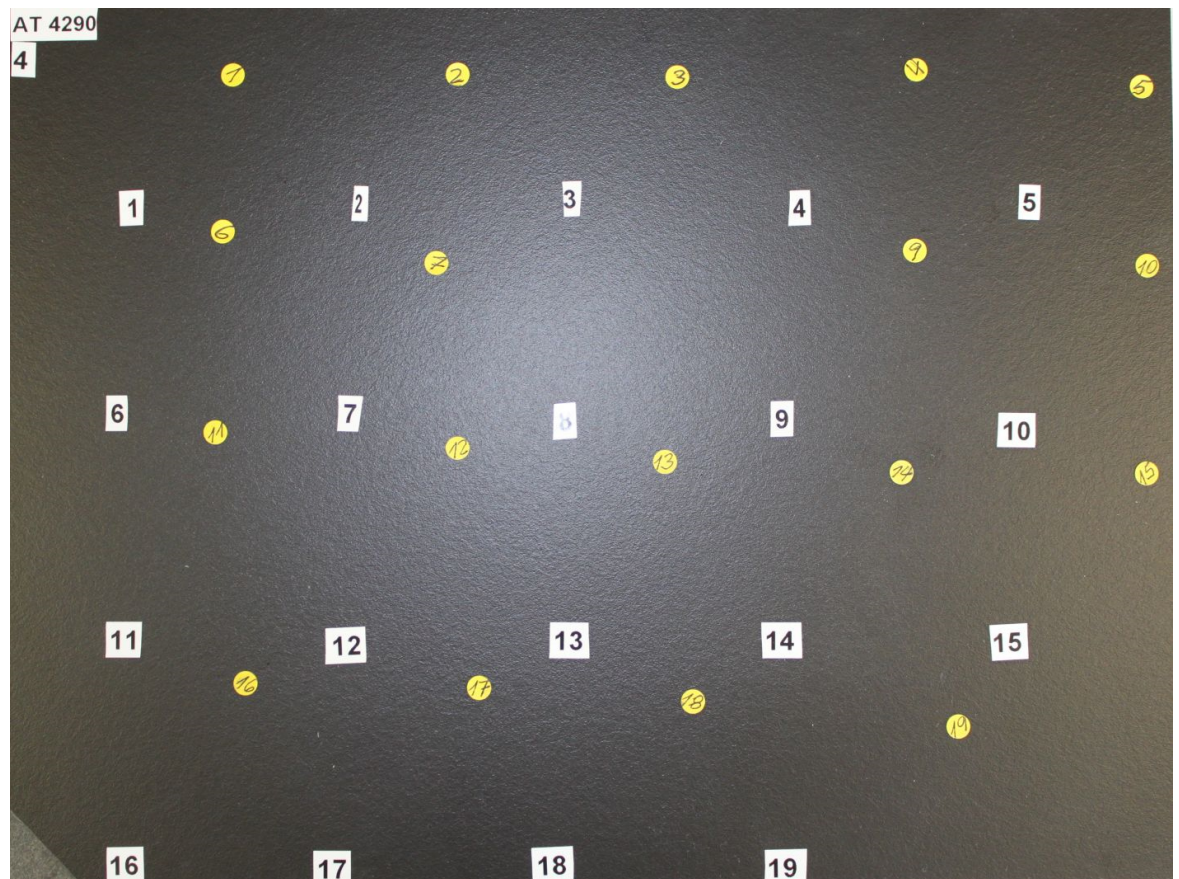


Fig. 4. TopLab®VERTICAL K90.0.0 Satin Black after completion of the tests and 48 h drying (wetting test - white markers, drying test - yellow markers)

During the wetting test as well as during the drying test, no visible changes occur to the material with any of the tested products.

Figure 5 shows the TopLab®^{BASE} E0-00 Crystal White surface after completion of the wetting and drying tests and after 48 hours of drying.

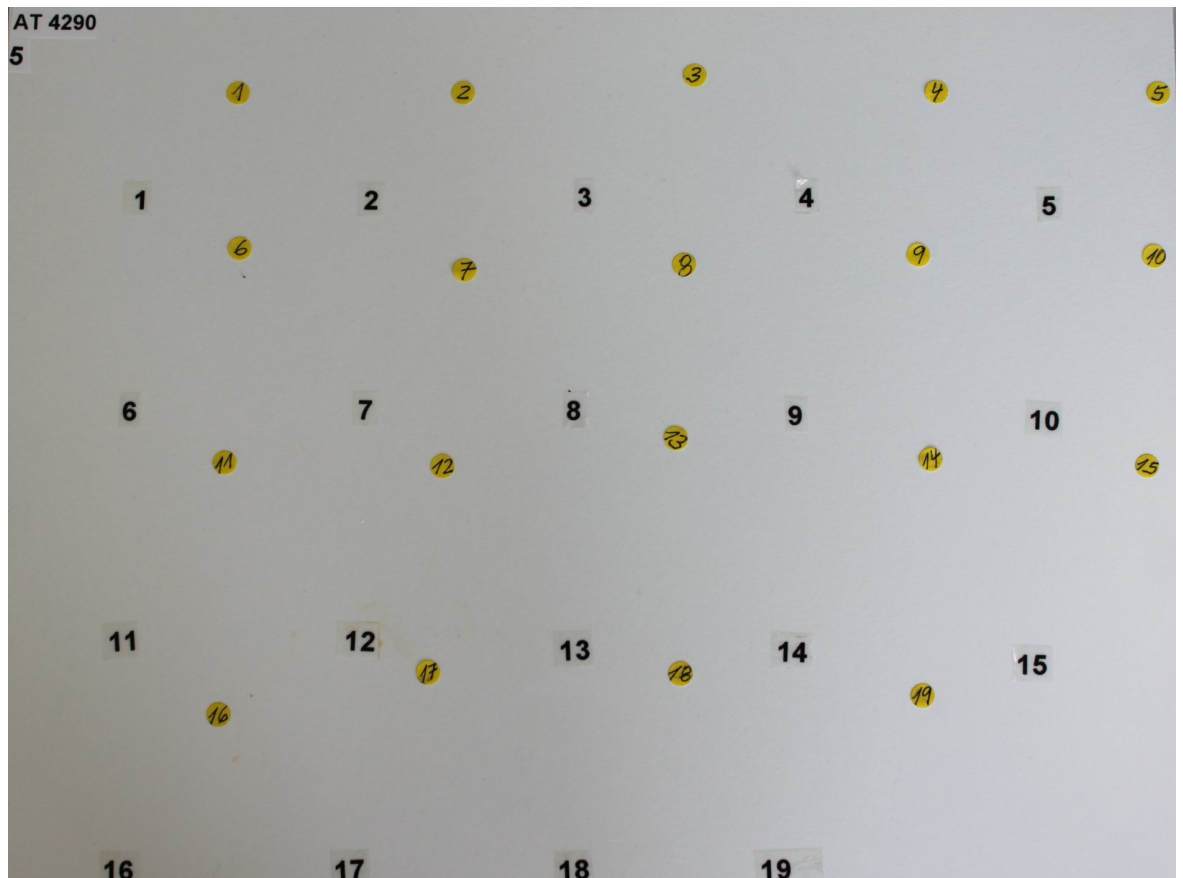


Fig. 5. TopLab®^{BASE} E0-00 Crystal White after completion of the tests and 48 h drying (wetting test - white markers, drying test - yellow markers)

During the wetting test, no visible changes occur to the material with any of the tested products.

During the drying test, the minimal visible changes that occur can be easily and completely removed by wiping the surface with a wipe moistened with water at the end of the test.

Figure 6 shows the TopLab®^{BASE} E0-09 Crystal Black surface after completion of the wetting and drying tests and after 48 hours of drying.

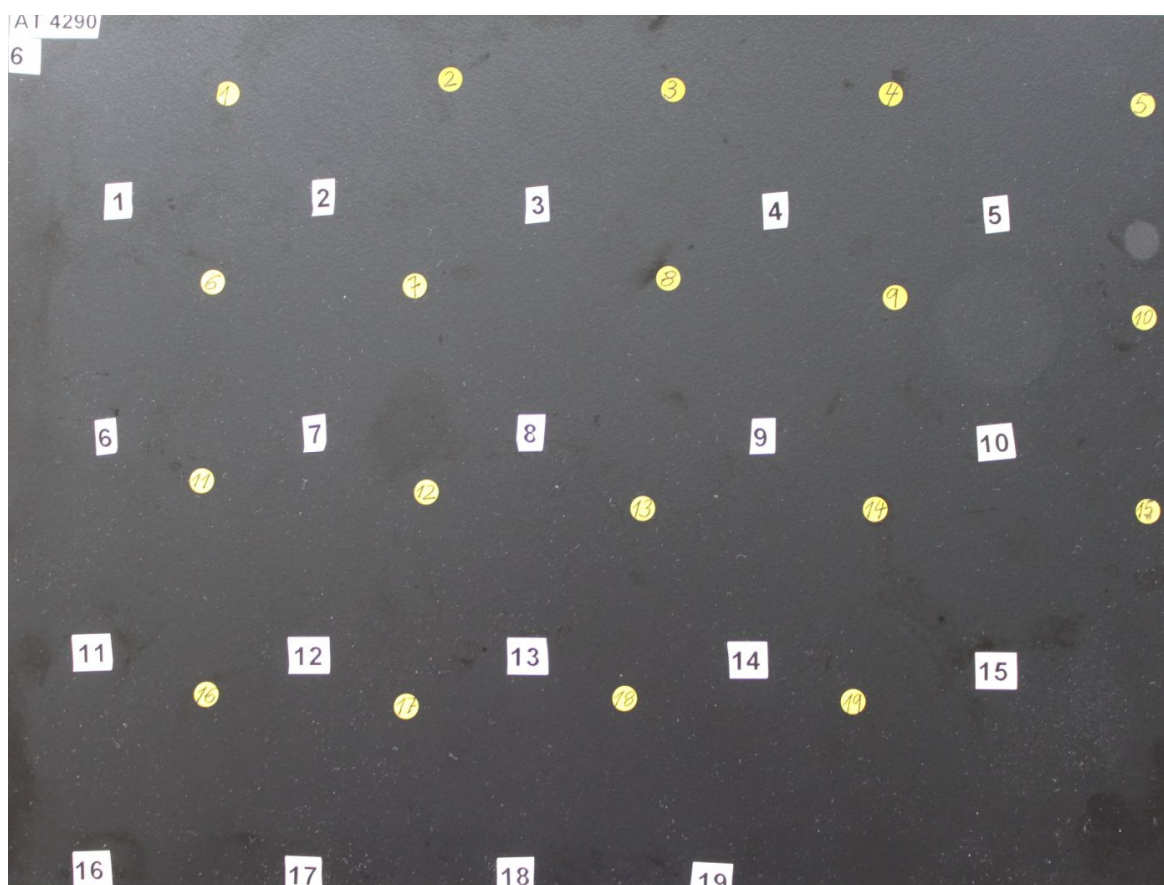


Fig. 6. TopLab®^{BASE} E0-09 Crystal Black after completion of the tests and 48 h drying (wetting test - white markers, drying test - yellow markers)

During the wetting test, perform® sterile PAA (10) causes a slight but clearly visible discoloration, which is only partly and very slowly reversible. No visible changes occur with any of the other products tested.

During the drying test, perform® sterile PAA (10) causes a clearly visible and irreversible discoloration. The other products cause no or only minimal visible changes which can be easily and completely removed by wiping the surface with a wipe moistened with water at the end of the test.

Discussion

In general, the tested Trespa TopLab® surfaces show a very good material compatibility with all of the tested products. Even products which are not meant to come into prolonged contact with the surface, such as the hand disinfectant desderman® pure or the intensely orange colored skin antiseptic kodan® tincture forte coloured do not cause any irreversible visible changes.

The only exception is the TopLab^{®BASE} E0-09 Crystal Black surface, where perform[®] sterile PAA causes a discoloration of the surface from black to dark grey both in the wetting as well as in the drying test.

Conclusions

The following products are compatible with the tested Trespa TopLab[®] surfaces. Besides the products that have actually been tested (see Material and methods), this list also includes products that were not included in the test but which are very similar to the products that have been tested.

- | | |
|---|--|
| - antisept [®] N liquid | based on mikrocid [®] AF results |
| - antisept [®] s | based on perform [®] sterile cleaner ND |
| - buraton [®] 3025 | based on perform [®] classic concentrate GA results |
| - buraton [®] rapid | based on mikrocid [®] AF results |
| - Desinfektionsreiniger AF | based on quartacid [®] plus |
| - mikrocid [®] AF | |
| - mikrocid [®] sensitive | |
| - mikrocid [®] universal | |
| - mucasol [®] | |
| - perform [®] | |
| - perform [®] advanced alcohol EP | based on mikrocid [®] AF results |
| - perform [®] classic alcohol EP | based on mikrocid [®] AF results |
| - perform [®] classic alcohol IPA | |
| - perform [®] classic concentrate GA | |
| - perform [®] classic concentrate OXY | based on perform [®] results |
| - perform [®] classic concentrate Q-Plus | based on terralin [®] protect results |
| - perform [®] classic concentrate QB | |
| - perform [®] classic wipes EP | based on mikrocid [®] AF results |
| - perform [®] sterile alcohol EP | |
| - perform [®] sterile alcohol IPA | based on perform [®] classic alcohol IPA results |
| - perform [®] sterile cleaner ND | |
| - perform [®] sterile concentrate OXY | based on perform [®] results |
| - perform [®] sterile concentrate Q2 | based on quartasept [®] plus |
| - perform [®] sterile concentrate QB | based on perform [®] classic concentrate QB results |
| - perform [®] sterile wipes IPA | based on perform [®] classic alcohol IPA results |
| - pursept [®] AF | |
| - quartacid [®] plus | |
| - quartasept [®] plus | |
| - s&m Reinigungsadditiv | based on perform [®] sterile cleaner ND |
| - terralin [®] liquid | based on mikrocid [®] AF results |
| - terralin [®] PAA | |
| - terralin [®] protect | |
| - TPH protect | based on terralin [®] protect results |

In addition, there are several products that are not meant to be used on the tested Trespa TopLab surfaces, but which are nonetheless compatible.

- | | |
|------------------------------------|---|
| - desderman® care | based on desderman® pure results |
| - desderman® pure | |
| - desmanol® care | based on desderman® pure results |
| - desmanol® pure | based on desderman® pure results |
| - kodan® tincture forte coloured | |
| - kodan® tincture forte colourless | based on kodan® tincture forte coloured |
| - octenisept® | |

The following products are not compatible with the Trespa TopLab®^{BASE} E0-09 surface.

- | | |
|------------------------------------|---------------------------------------|
| - mikroqid® PAA wipes | based on perform® sterile PAA results |
| - perform® classic concentrate PAA | based on perform® sterile PAA results |
| - perform® sterile concentrate PAA | based on perform® sterile PAA results |
| - perform® sterile PAA | |

Although no visible changes were observed for perform® sterile PAA on the TopLab®^{BASE} E0-00 Crystal White surface, we would nevertheless advice not to use perform® sterile PAA and the other three products listed above on this surface.

We didn't observe any visible changes for perform® sterile PAA on any of the tested TopLab®^{VERTICAL} and TopLab®^{PLUS} surfaces, so these surfaces are probably fully compatible with perform® sterile PAA and the other three products listed above. Just to make sure, it might nevertheless be a good idea to recommend customers to only occasionally use mikroqid® PAA wipes, perform® classic concentrate PAA, perform® sterile concentrate PAA and perform® sterile PAA on these surfaces.

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