

BENEFITS

- ESPECIALLY DESIGNED FOR POLISHED CONCRETE COUNTERS & FLOORS
- FILLS VOIDS AND ENCAPSULATES ENTIRE SURFACE WITH A TOUGH, HIGH-STRENGTH EPOXY FINISH
- ALLOWS FOR EASY CLEANING AND SURFACE SANITATION
- SIMPLE TO APPLY / 3-STEP PROCESS
- SOLVENT-FREE / NON HAZMAT
- TOUGHENS CONCRETE AGAINST MECHANICAL DAMAGE FROM FALLING TOOLS OR OTHER IMPACTS
- PREVENTS PENETRATION BY FOODSTUFFS, OILS, GREASE AND OTHER CONTAMINANTS
- SEALS AGAINST SURFACE WATER ABSORPTION
- U.S.D.A. COMPLIANT



Manufacturer / Formulator of High Performance Coatings
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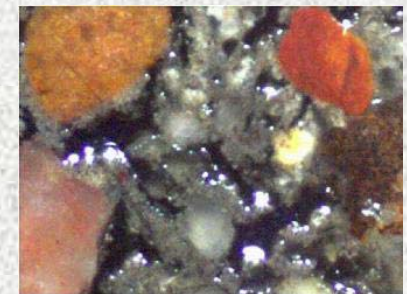
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SANI-SEAL™
370 EPOXY
RESIN

New!

TFT

**High-strength Epoxy
Toughens & Seals
POLISHED CONCRETE —
Prevents Contamination
From Common Foodstuffs
Or Cleaning Agents**



(7 1 3) 9 1 0 - 6 2 0 0



SANI-SEAL™ 370 EPOXY RESIN SEALS POLISHED CONCRETE SURFACES

Although polished concrete is attractive, durable, and easily maintained, it retains the porous character of raw concrete. Professional polishing brings the sand and aggregate particles to a high luster but has no significant effect on the Portland paste which binds the mixture. The photomicrograph below taken at 60X magnification clearly shows the highly polished aggregate particles on the surface but also reveals the open,



porous nature of the Portland binder between them. This network of voids and porosity provides an ideal breeding place for bacteria living on spilled foodstuffs.

USE SANI-SEAL™ 370 ON COUNTERTOPS & FLOORING

TFT has developed a high performance, solvent-free sealer especially for polished concrete that offers several important benefits. Most importantly, it is a tough, high-strength epoxy that penetrates the surface to fill voids and encapsulate the entire surface making it resistant to all common foodstuffs and cleaning agents.



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The epoxy sealer shown in the photomicrograph at left has been tinted black to highlight it. Though available in shades from black to white, a light gray offsets the darkening seen when dry concrete is moistened.



The application process of applying the sealer, allowing it to penetrate for about 20 minutes, and then simply wiping off the excess ensures that the sealer surface lies just beneath the polished aggregate. This retains the aggregate as the primary wear surface for a long, maintenance-free life with the underlying epoxy resin reinforcing and cushioning it against impact and chemical attack.

LAB TESTED

Laboratory tests with various foodstuffs on unsealed, polished concrete demonstrate that it is virtually impossible to properly remove spills from its porous surface by vigorous wiping. Examination of the photomicrograph above clearly shows mustard residue which has been driven into the pores of the concrete by wiping. Such residues will eventually



harbor and feed bacteria resulting in a very unsanitary surface.

Contact with vinegar can be even more damaging since the vinegar acids attack and dissolve the alkaline Portland paste.



The photomicrograph above right shows evolution of carbon dioxide from freshly applied balsamic vinegar as it dissolves the Portland paste.

Below, an accompanying photomicrograph illustrates the effect of a 15-minute exposure to balsamic vinegar. Note the wider and deeper



“chasms” in the aggregate surface which has now weakened, thus providing additional space in which bacteria may thrive.

Exposure to balsamic vinegar, ketchup and mustard also resulted in an unattractive change in appearance due to staining, gloss reduction, and residues left in the pores of the concrete. Scrubbing with a moist cloth was ineffective in either removing these residues or restoring the initial appearance of the concrete.

In sharp contrast, the “Sani-Sealed” concrete surface was easily and thoroughly cleaned with a wet rag.

For more information, see the TFT website:

www.thinfilmttech.net