STAINING AND RESISTANCE TO CHEMICALS
Linoleum xf²

Tests based on the EN 423 / EN ISO 26987 Norm

Test Objective: Determine the reaction of a resilient floor covering to those chemical substances it is likely subjected to in service.
Test Principle: Specified chemical substances in liquid or solid form are placed on a test piece for defined periods and then removed. After cleaning has been carried out, the resulting change of appearance is assessed under specific lighting conditions.

			Linoleum		
			Linoleum xf²		
	Substances	***Concentration***	***5'***	***2h***	***24h***
Acids	Acetic acid CH_3COOH	80%	0	0	1
	Citric Acid	50%	0	0	0
	Hydrochloric acid HCl	37%	0	0	2
	Nitric acid HNO_3	65%	0	1	3
	Nitric acid HNO_3	30%	0	0	3
	Phosphoric acid H_3PO_4	85%	0	0	0
	Phosphoric acid H_3PO_4	30%	0	0	0
	Sulfuric acid H_2SO_4	98%	0	0	0
	Sulfuric acid H_2SO_4	30%	0	0	0
Alkali	Ammonia NH_4OH	25%	0	1	2
	Sodium hydroxide NaOH	50%	0	1	3
	Potassium hydroxide	0,1%	0	0	0
Salts	Potassium chloride KCl	10%	0	0	0
	Potassium permanganate $KMnO_4$	5% in H_2O	1	3	3
	Silver nitrate $AgNO_3$	2% in H_2O	0	0	0
	Sodium carbonate Na_2CO_3	20% in H_2O	0	0	0
Solvents	Acetone C_3H_60	>98%	0	0	0
	Acetonitrile	>98%	0	0	0
	Diethyl ether	> 98%	0	0	0
	Formaldehyde CH_2O	37%	0	0	0
	Heptane	>98%	0	0	0
	White spirit	>98%	0	0	0
Alcohols (contained in Hand sanitizers)	Ethanol C_2H_5OH	>98%	0	0	0
	Isopropanol C_3H_8O	>98%	0	0	0
Antiseptics/Disinfectants	Eosin	1% in H_2O	0	1	2
	Iodine	1% (alcohol)	1	3	3
	PVP-I (Povidone-iodine) - Betadine Yellow bottle	10%	0	0	2
	PVP-AI - Alcoholic Betadine Orange bottle	5%	1	1	2
	PVP-I Scrub - Betadine Red bottle	7,5%	0	1	3
	Chlorhexidine gluconate	0,5%	0	1	3
	Chlx gluconate-Alcohol (Hibitane Plus)	5%	0	0	0
	Hydrogen peroxide	30%	0	2	3
	Peracetic acid $C_2H_4O_3$	15%	0	2	3
	Quaternary Ammonium (used in Floor cleaners)	30%	0	0	0
	hand sanitizer	Alcohol Ethylic denatured 63%	0	0	0
	Sodium hypochlorite (Bleach)	0.5% active chloride in H_2O	0	0	0
Others	Urine	n.a.	0	0	0

0 Not affected
1 Slightly affected
2 Moderately affected
3 Intensely affected

Stain removal - general advice

Treat marks immediately
Using polyester soft red pad or soft brush ans appropriate detergent to remove residual spots and stains
Work from the outside of the mark towards its center. Rinse and wipe afterwards with clean water

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Tarkett