

Cleaning order for Fundermax panels

FIRST CLEANING STEP

Clean the surface just with pure hot water and use a soft sponge - (DO NOT use the abrasive "green" side of the sponge), use a soft cloth or a soft brush (e.g. nylon brush).

SECOND CLEANING STEP

If stains cannot be removed common household cleaners without abrasives e.g. dish detergent (Palmolive etc.), window cleaner (Windex etc.) may be used. Subsequently do the final cleaning.

THIRD CLEANING STEP

If the contamination is not removable, you can use a solution of soft soap - water (1:3). Depending on the degree of pollution leave it on the surface for a couple of minutes. Subsequently do the final cleaning.

FOURTH CLEANING STEP

Same as cleaning step 1, but additionally you may use organic solvents (e.g. acetone, alcohol, turpentine, thinner). For persistent stains, try to clean mechanically

Caution: Avoid scratching, use plastic or wooden spatula. Subsequently do the final cleaning.

FIFTH CLEANING STEP

(for adhesives, varnish, sealants, silicone residues) Rub off the surface with a soft cloth or a soft sponge dry. If contaminants cannot be removed, use silicone remover or ask the adhesive manufacturer for the ideal cleaning agents.

Caution: Cured 2K adhesives, coatings, foams and sealant **cannot** be removed.

SIXTH CLEANING STEP

Same as cleaning step 1. For persistant limescale acidic cleaning agents may be used (for example, 10% acetic acid or citric acid). Subsequently do the final cleaning.

FINAL CLEANING

Remove all traces of detergent to avoid streaking. Finally, wash with pure water. Wipe the surface dry with an absorbent cloth or paper towel.

When cleaning with solvent: Observe the accident prevention regulations! Open windows! No open flame!



For you to create



Chemical resistance

The focus of this recommendation is a depiction of the chemical resistance of the Fundermax Compact panels and the resulting possibilities for application.

Besides their excellent mechanical values, the hygienic pore-free sealed surfaces of the Fundermax panels mean a high temperature resistance, easy cleaning and a good resistance to chemicals. The stain resistance requirements in accordance with EN 438 are also met.

They can therefore be used when for example;

- Lab and technical chemicals
- Solvents
- Disinfectants
- Dyes (certain types)
- Cosmetics

are used on the surface.

Particular attention must be paid to the careful processing of Fundermax Compact panels, as certain requirements may be imposed due to the particular field of use when constructing certain laboratory and medical facilities. For this kind of application we recommend the use of Max Resistance (lab panels).

Fundermax Compact panels are resistant against many different chemicals. However, several chemicals may still corrode the surface.

Therefore, of crucial importance are:

- The concentration
- Exposure time
- The temperature of substances used

The following lists, although there is no guarantee that they are complete, give an overview of the resistance of Fundermax Compact panels (at room temperature) against the effects of frequently occurring or used substances (solid, dissolved, fluid, gaseous).

When using substances that are not listed, we ask that you enquire further and recommend own sample tests.

For you to create



No damage

Fundermax Compact panels are resistant against the following substances and agents. These elements do not have an impact on the surface area of Fundermax Compact panels, even after prolonged exposure (16 hours).

Substance	chemical formula
Acetic Acid	CH₃COOH
Acetone	CH ₂ COCH ₂
Active charcoal	
Alcohol	ROH
Alcohol, beverages	DOLLOOLI
Alcohol, primary	RCH2OH
secondary	RR'CHOH
tertiary	RR'R''COH RCHO
Aldehyde Alum liquor	KAI(SO ₄) ₂ ,12H ₂ O
Aluminium chloride	AlCh.ag.
Aluminium sulphate	Al ₂ (SO ₄) ₃
Aluminium potassium sulphate	KAI(SO ₄) ₂
Amides	
Amines, primary	RCONH ₂
secondary	RNH2
tertiary	(RR')NH
Ammonia	(RR'R'')N
Ammonium chloride	NH ₄ OH
Ammonium sulphate	NH ₄ CI
Ammonium sulphate	(NH ₄) ₂ SO ₄
Amyl acetate	NH₄SCN
Amyl alcohol	CH _s COOC _s H ₁₁
Aniline	C ₅ H ₁₁ OH
Animal fat	G ₆ H ₅ NH ₂
Animal fodder	
Arabinose	
Ascorbic acid	C ₅ H ₁₀ O ₅
Asparagine	GeH ₄ Oe
Aspartic acid	C ₄ H ₄ O ₃ N ₂
p-Aminoacetophenon	C ₄ H ₂ O ₄ N
Baker's yeast Barium chloride	NH ₂ .C ₄ H ₄ COCH ₂
Barium sulphate	BaCla
Benzaldehyde	BaSO ₄
Benzene	C ₆ H ₅ CHO
Benzidine	CeHe
Benzoic acid	NH+C+H+,C+H+NH+
Biogel	G ₆ H ₅ COOH
Blood	
Boric acid	
Butylacetate	H ₂ BO ₂
Butyl alcohol	CH:COOC:Ho
Cadmium acetate	C ₄ H ₄ OH
Cadmium sulphate	Cd(CH ₂ COO) ₂
Caffeine	CdSO ₄
Calcium carbonate (lime)	
Calcium chloride	CaCO ₃
Calcium hydroxide	CaCl»
Cancernar	Ca(OH):
Cane sugar Carbolic acid	Ca(NO ₃) ₃ C ₁₃ H ₂₅ O ₁₁
Carbolic acid - xylene	GaHaOa
Ondere Advertised	CaHaOH-CaHa(CHa)a
Carbon tetrachionde Casein	CCIs
Castor oil	
Cedarwood oil (concentrated)	
Cement	
Chloral hydrate	
Chlorobenzene	CCI ₂ CH(OH) ₂
Chloroform	C ₆ H ₅ Cl
	CHCli
Chloroform	
Chloroform Cholesterol	CHCla

Substance	chemical formula
0	CHON
Cocaine Coffee	C17H21O4N
Common salt	NaCl
Copper sulphate	CuSOaq
Cosmetics	OGOOaq
Cresol	CH ₂ C ₂ H ₂ OH
Cresylic acid	CH ₂ C ₆ H ₄ COOH
Cyclohexane	C¢H19
Cyclohexanol	C₄H□OH
Detergents	
Dextrose	GeH13O6
Digitonin	CssHeoOse
Dimethyl formamide	HCON(CH ₃) ₂
Dimetyhl acetic acid	CH ₂ COOH
Dioxan	G₁H₁O₂
Dulcitol	GeH+eOe
Ester	RCOOR'
Ethanol	C ₂ H ₂ OH
Ether	ROR'
Ethyl acetate	CH ₂ COOC ₂ H ₂ CH ₂ :CCI
Ethylene dichloride Fodder	OH:.00I
Foodstuffs	
Formaldehyde	HCOH
Formic acid up to 10%	HCOOH
Fructose	C6H19O6
Galactose	CeH13Os
Gelatine	
Glacial acetic acid	CH ₂ COOH
Glucose	CeH ₁₂ O ₆
Glycerine	CH ₂ OH.CHOH.CH ₂ OH
Glycocoll	NH ₂ CH ₂ COOH
Glycol	HOCH ₂ .CH ₃ OH
Graphite	С
Greases	
Gypsum	CaSO ₄ .2H ₂ O
Heparin	
Heptanol	C ₂ H _∞ OH
Hexane	G _t H _{tt}
Hexanol Hydrogen peroxide 3%	C _t H ₁₂ OH H ₂ O ₂
	H ₂ O ₂
Hypophysin Imido "Roche"	
Immersion oil	
Ink	
Inorganic salts and their mixtures	
Inositol	GeHe(OH)e
Insecticides	
Isoamyl acetate	CH#COOC#H#
Isopropanol	G ₄ H ₇ OH
Ketone	RC:OR'
Lactic acid	CH₃CHOHCOOH
Lactose	C19H29O11
Lead acetate	Pb(CH ₂ COO) ₂
Lead nitrate	Pb(NO ₃) ₂
Laevoluse	C¢H19O¢
Lipstick	
Lithium carbonate	Li ₂ CO ₃

For you to create





No damage

Fundermax Compact panels are resistant against the following substances and agents. These substances do not have an impact on the surface area of Fundermax Compact panels, even after prolonged exposure (16 hours).

Substance	chemical formula
Magnesium carbonate	MgCO ₂
Magnesium chloride	MgCl ₂
Magnesium sulphate	MgSO ₄
Maltose	C19H39O11
Manitol	C ₆ H ₁₆ O ₆
Mannose	C6H19O6
Mercury	Hg
Mesoinositol	CeHe(OH)s
Methanol	CH ₂ OH
Milk	
Mineral oils	
Mineral salts	
Nail varnish	
Nail varnish remover	
α-Naphtol	C ₁₀ H ₇ O ₇
α-Naphtylamine	C10H7NH9
Nickel sulphate	NiSO ₄
Nicotine	C10H14N0
p-Nitrophenol	C«H«NO»OH
Nonne-Appelt-reagent	
Octanol	G _i H ₁₇ OH
n-Octyl alcohol	G _i H ₁₇ OH
Olive oil	
Oleic acid	CH ₂ (CH ₂) ₂ CH:CH(CH ₂) ₂ COOH
Organic solvents	
Ointments	
Pandy's reagent	
Paraffin waxes	CnH₃n+₃
Paraffinic oil	
Pentanol	C«H++OH
Peptone	
Petroleum benzin	
Phenol and phenol derivatives	C ₆ H ₅ OH
Phenolphtalein	C20H14O4
Polishing agents (creams/waxes)	
Potash lye up to approx. 10%.	KOH
Potassium bromate	KBrO₃
Potassium bromide	KBr
Potassium carbonate	K₃CO₃
Potassium chloride	LCI
Potassium hexacyanoferrate	K ₄ Fe(CN) ₆
Potassium iodate	KJO ₂
Potassium nitrate	KNO ₃
Potassium sodium tartrate	KNaC ₄ H ₄ O ₆
Potassium sulphate	K ₃ SO ₄
Potassium tartrate	K ₂ C ₄ H ₄ O ₆
Potato starch	
Propanol	C4H2OH
1,2-Propylene glycol	CH/CHOHCH/OH
Pyridine	C _s H _s N
Qinol	HOC4H4OH
Raffinose	C16H20O15.5H2O
Rhamnose	C«H+»O«,H»O
Rochelle salt	
Saccarose	= Cane sugar
Salicylaldehyde	C ₆ H ₄ OH.CHO
Salicylic acid	C ₆ H ₄ OHCOOH
Saponon	
Seawater	

Substance	chemical formul
Codium contata	CII-CCCN-
Sodium acetate Sodium carbonate	CH ₂ COONa Na ₂ CO ₂
	NACI
Sodium chloride	
Sodium citrate	Na ₂ C ₄ H ₂ O ₇ .5H ₂ O
Sodium diethylene barbiturate	NaC ₈ H ₁₁ N ₂ O ₈
Sodium hydrogen sulphite	NaHSO ₃
Sodium hydrogencarbonate (Sodium carbonate)	NaHCO ₂
	NaOH
Sodium hydroxide solution	IVBUT
(up to approx. 10%) Sodium hyposulphite	Na ₂ S ₂ O ₄
Sodium nitrate	NaNO:
	Na:PO:
Sodium phosphate Sodium silicate	Na ₂ SiO ₂
Sodium silicate Sodium sulphate	Na ₂ SO ₄
	Na ₂ S
Sodium sulphide	
Sodium sulphite Sodium tartrate	Na₃SO₃ Na∍C₄H₄O₅
Sodium tartrate Soil	N8/G4H4O6
Soot	
Sorbitol	CeH ₁₄ Os
	OST18OS
Standard acetate solution	
Standard I + II - Nutrient agar	
Standard I + II - Nutrient broth Starch	
Starch -common salt solution	0.11.00011
Stearic acid	C ₁₇ H ₈₅ COOH
Styrene	G ₆ H ₈ .CH:CH ₂
Sugar and sugar derivates	
Sulphur Talcum powder	S 3MgO,4SiO ₂ , H ₂ O
Tannic acid	CzHsOs
Tartaric acid	C ₆ H ₆ O ₆
Tartaric acid Tea	Gillio6
Test serum for blood grouping	CHO
Tetrahydrofuran Tetraline	C«H«O C»H»
Thiourea	NH ₂ CSNH ₂
	INDSOSINDS
Toepfer's reagent Toulene	CeHeCHe
Trehalose	CisHisOni
Tricholoro ethylene	CHCI:CCb
Trypsin	C ₁₁ H ₁₂ O ₂ N ₂
Trytophane	GnHisOsNs
Turpentine	0.11.0
Tymol	C10H10O
Tymol buffer solution	004111
Urea solution	CO(NH ₂) ₂
Urease	011110
Uric acid	CsHaNaOs
Urine	0110
Vanillin	CaHaOa
Vaseline	
Water	H ₂ O
Water colours	
Xylene	G ₆ H ₄ (CH ₃)₂
Yeasts	
Zinc chloride Zinc sulphate	ZnCl ₂ ZnSO ₄

For you to create



No damage under short exposure

Surfaces from Fundermax Compact panels remain unchanged when the following substances are spilled on them (particularly in liquid or dissolved form) or if they are in contact for a short amount of time. That means the panels are washed with a wet towel within 10-15 minutes and then rubbed dry.

Please note that the time of exposure is an important factor in the extent of corrosion on the HPL surfaces, even with diluted agents. As a result of the evaporation of the diluted material, the concentration of the substance increases over a period of time and the surfaces of Fundermax Compact panels will be corroded, even though the concentration used will mostly be below those named in the following list. Focused sample tests are recommended.

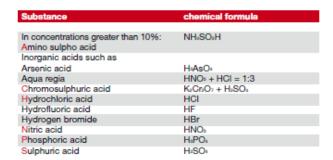
Substance	chemical formula
Amino-S acid up to 10%	NH ₂ SO ₂ H
Aniline dyes	
Antiliming agents	
Arsenic acid up to 10%	H ₂ AsO ₄
Boric acid	H ₃ BO ₃
Crystal violet (Gentian violet)	CasHanNaCI
Esbach's reagent	
Formic acid over 10%	HCOOH
Fuchsine solution	C ₁₀ H ₁₀ N ₀ O
Hair dyes and bleaches	
Hydrochloric acid up to 10%	HCI
Hydrogen peroxide over 3-30%	H ₂ O ₂
(Perhydrol)	
Inorganic acids up to 10%	
lodine solution	I
Iron (II) chloride solution	FeCl ₂
Iron (III) chloride	FeCl₃
Mercury (II) chromate	HgCr ₂ O ₇
Methylene blue	C ₁₅ H ₁₈ N ₂ CIS
Millon's reagent	OHg:NH:CI
Nitric acid up to 10%	HNO₃
Nylander's reagent	
Oxalic acid	COOH.COOH
Phosphoric acid up to 10%	HPO4
Picric acid	CeH2OH(NO2)2
Potash Iye over 10%	КОН
Potassium hydrogensulphate	KHSO ₄
Potassium chromate	K ₂ CrO ₄
Potassium dichromate	K₃Cr₃O ₇
Potassium iodide	KJ
Potassium permanganate	KMnO ₄
Silver nitrate	AgNO ₂
Sodium hydrogen-sulphate	NaHSO ₄
Sodium hydroxide sol. over 10%	NaOH
Sodium hypochloride	NaOCI
Sodium thiosulphate	Na ₂ S ₂ O ₂
Sublimate solution	HgCl ₂
(= mercury (II) chloride)	
Sulphuric acid up to 10%	H _s SO ₄
Sulphurous acid up to 10%	H ₂ SO ₂
Varnishes and adhesives.	
(chemically curing)	
(orientically curing)	

For you to create



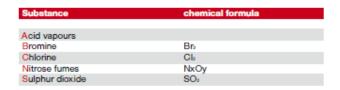
High damage risk

The following chemicals destroy the Fundermax Compact panel surfaces and must be removed immediately, as they could also leave behind dull spots and coarseness.



Aggressive gases

Frequent exposure to the following aggressive gases and vapors can lead to changes in the Fundermax Compact panel surfaces.



For you to create