since 1880

deffner & Johann

Supplies for RESTORATION | CONSERVATION | ART HANDLING

NANORESTORE®

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CLEANING

… of water-tolerant materials (glass, ceramics, metal, stones, wall paintings, …)

What do you have to remove?

Water-insoluble matter (polymer coatings, waxes, adhesives, varnishes, oily stains, protective agents, scotch tape, …)

Microemulsion

Which solvents work in your case?

Polar

Apolar

Is there a reason to avoid ionic surfactants? Do you have salts on the surface?

NO

YES, I have **salts**

CLEANING POLAR COATING B, G, S Item no. 2090 002, 2090 004, 2090 000

Water-soluble matter (dust, common grime, protheic matter, soluble poly-saccharides, …)

NanoGel

Does the object surface have a strong texture?

NO

YES

GEL PEGGY 5, 6 Item no. 2092 000, 2092 002

DRY GEL MWR, HWR Item no. 2092 012, 2092 014

CLEANING APOLAR COATING Item no. 2090 006

YES, I have **salts**

CLEANING POLAR COATING B, G Item no. 2090 002, 2090 004

…of water-sensitive materials (paper, wood, canvas, textiles, easel paintings modern acrylics, gypsum sculptures, …)

Are the objects water sensitive?

NO

YES

GEL PEGGY 5, 6 Item no. 2092 000, 2092 002

How sensitve is your object to water?

LITTLE

EXTREMELY

DRY GEL MWR Item no. 2092 012

DRY GEL HWR Item no. 2092 014

SEE INFOGRAPHIC NANORESTORE® GEL

The gel is only the medium for the cleaning fluid, which has to be chosen according on what you have to remove…

Water-insoluble matter (polymer coatings, waxes, adhesives, varnishes, oily stains, protective agents, pressure sensitve tape, …)

Water-soluble matter (dust, common grime, protheic matter, soluble poly-saccharides, …)

Use neat gels or load the most suitable aqueous solution (pH buffer, chelator, surfactant, …)

Which solvents work in your case?

Polar

Apolar

CLEANING APOLAR COATING Item no. 2090 006

Is there a reason to avoid ionic surfactants? Do you have salts on the surface?

YES, I have **salts**

NO

Selective removal of vandalism overpaintings, etc.

GEL MWR Item no. 2092 012 - **CLEANING POLAR COATING G** Item no. 2090 004

Best results have been obtained combining repeated applications of this nanofluid-loaded hydrogel with some mechanical removal, using a (rubber) scalpel and/or cotton swabs.



CONSOLIDATION

… of lime-based inorganic materials (wall paintings, stones, plasters, mortars, …)

Is your material porous enough to allow for nanoparticles penetration?

YES

NO / I DON´T KNOW

Ok. Can you risk having white glazing on the surface?

I CAN RISK

I CAN´T RISK

Are your materials (secco paint, inpainting, …) sensitive or may be harmed by 2-propanol?

NANORESTORE® products may be not the most suitable choice in this case.

NO

YES

Are they sensitive to ethanol?

YES

NO

PLUS PROPANOL 5, 10 Item no. 2091 004, 2091 006

PLUS ETHANOL 5, 10 Item no. 2091 000, 2091 002



DEACIDIFICATION

… of cellulosic materials (paper, woods, canvas, textiles, …), parchment and leather

Is your material porous enough for nanoparticles penetration?

YES

NO / I DON´T KNOW

Ok. Can you risk having white glazing on the surface?

I CAN RISK

I CAN´T RISK

Are your materials (inks,…) sensitive or may be harmed by 2-propanol?

NANORESTORE® products may be not the most suitable choice in this case.

NO

YES

Are they sensitive to ethanol?

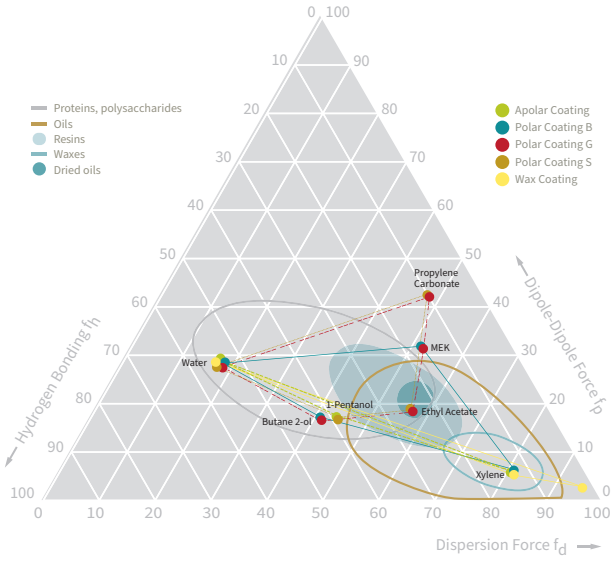
YES

NO

PAPER PROPANOL 3, 5 Item no. 2093 004, 2093 006

PAPER ETHANOL 3, 5 Item no. 2093 000, 2093 002







Apolar Coating	Polar Coating B	Polar Coating G	Polar Coating S	Wax Coating	
86.5	63.5	62	77	93.75	Water
7.5	-	-	6	-	1-Pentanol
4	-	-	3	0.75	Sodium Dodecyl Sulphate
2	7.5	-	-	0.75	P-xylene
-	18.5	12	-	-	Butanone Methyl Ethyl Ketone
-	7.5	8.5	-	-	Butan 2-ol
-	3	5.5	-	4	Alkyl alcohhol ethoxylated
-	-	6	7	-	Propylene Carbonate
-	-	6	7	-	Ethyl Acetate
-	-	-	-	0.75	Ligroine*

*(Petroleum Ether BP 65 -100)

09/2026

Products have been developed within **NANOFORART** EU Project, by **CSGI** (Research Center for Colloid and Surface Science), Italy.

www.deffner-johann.de

Our NANORESTORE® products can be found here: