deffner & Johann

Which is my conservation issue?

CLEANING

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

What do you have **to remove**?

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

Which solvents work in your case?

Polar ones (acetone, ethanol, MEK, ethyl acetate, …)

Apolar ones (xylene, white spirits, …)

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 Item no. 2090 002, 2090 004

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

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

Is your **surface rough** or, irregularly shaped?

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

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

Is your **surface rough** or irregularly shaped?

YES

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

NO

How much is your material senstive to water?

LITTLE

DRY GEL MWR Item no. 2092 012

EXTREMELY

DRY GEL HWR Item no. 2092 014

SEE INFOGRAFIK 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, adhesives, protective agents, varnishes, waxes, oily stains, scotch tape, …)

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

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

Which solvents work in your case?

Polar ones (acetone, ethanol, MEK, ethyl acetate, …)

Apolar ones (xylene, white spirits, …)

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

YES, I have **salts**

NO

CLEANING APOLAR COATING Item no. 2090 006

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 (inks, etc.) sensitive or may be harmed by **2-propanol?**

NO

YES

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

YES

Are they sensitive to **ethanol?**

NO

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

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

DEACIDIFICATION

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

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 (inks, etc.) sensitive or may be harmed by **2-propanol?**

NO

YES

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

YES

Are they sensitive to **ethanol?**

NO

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

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

© Deffner & Johann GmbH

Grafik: Deffner & Johann / Yngve Magnusson

Source: www.csgi.unifi.it