AMA art media agency







Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Research Executive Agency (REA). Neither the European Union nor the granting authority can be held responsible for them.



## DEMISTIFYING THE PRODUCTION OF GREENART'S SECRET GELS

Behind CSGI's lab doors, green chemistry meets fragile art. Here "Peggy" gels and other microemulsions travel from beaker to canvas, carrying water and nanofluids with surgical calm. Chemists, researchers and microscopes share the bench; mock-ups take the risks so museum works don't have to.

Enter CSGI at the University of Florence, where research proceeds with a quiet focus and an easy collegiality. The spirit is studious but warm Here, green chemistry is not a slogan but a working constraint: materials must be safer, methods more contained, outcomes at least as good as the *status quo* — or they do not leave the room.

This is where Nanorestore' "Peggy" hydrogels came of age and where new variants are refined within GREENART. The idea is simple and demanding at once: carry aqueous or nanostructured cleaning fluids in a controlled, sheet-like network; release them slowly; lift unwanted layers without stressing what lies beneath; leave no mark of your passage. The practice is incremental. Mock-ups stand in for canvases and polychrome surfaces; trials compare selectivity, working time, residue; small adjustments in formulation are recorded, argued, kept or set aside.

At the centre of this work is Professor Piero Baglioni, who steers by (im)patience and precision. Alongside him, conservation scientist Davide Chelazzi keeps the line open between chemistry and practice: what a gel can do on paper is never separated from what a conservator needs it to do on a surface.

Carrying much of the day-to-day production are two PhD researchers, Andrea Casini and Teresa Guaragnone. They are the hands that translate recipes into reliable sheets, the eyes that catch the small differences between an almost and a right. There is always room for a smile or a quick joke... the kind of easy rapport that makes long days feel shorter.

Much of what leaves the lab is made to measure. CSGI produces near-bespoke gels in response to conservation briefs from museums. Requests arrive with constraints; the lab replies with options, notes and (mostly) magical solutions.

GREENART's expectations — lower toxicity, renewable or waste-derived inputs where effective, confined application that limits exposure, clear documentation for training — are integrated everywhere into the work. The gels happen to embody the approach, but the approach is larger: do more with water; make selectivity the first virtue; prefer lifting to dissolving; match performance with responsibility.

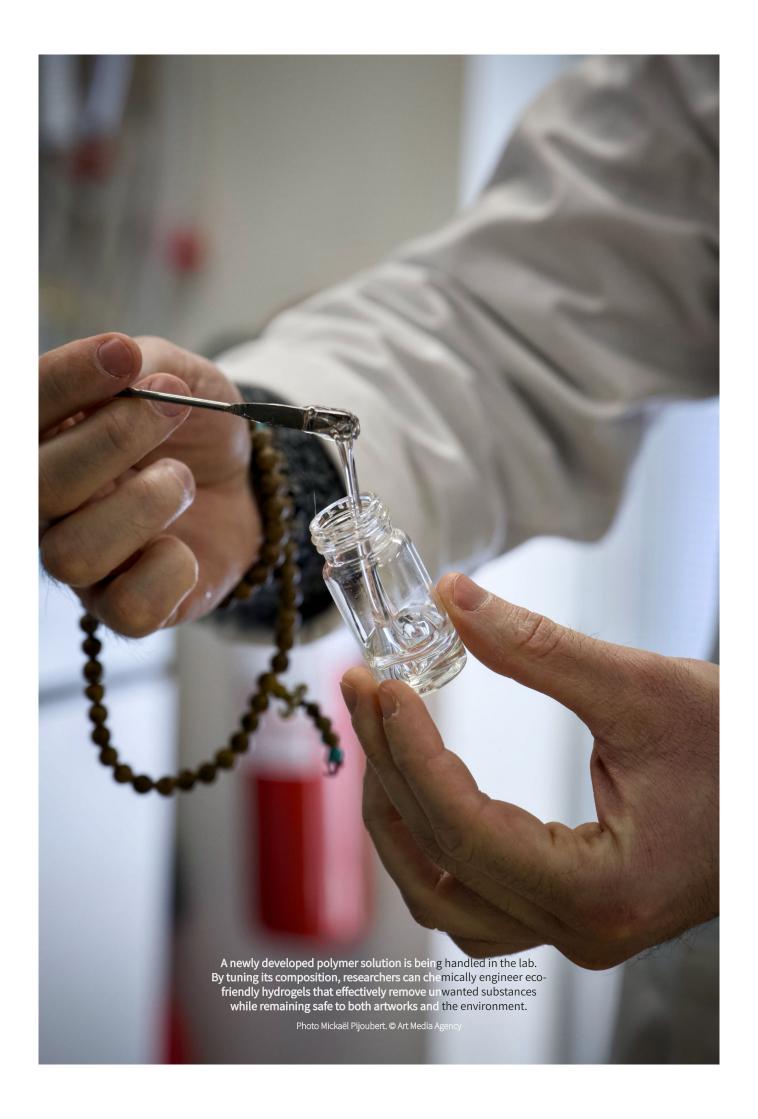
By day's end, the lab has produced what looks, from a distance, like clarity: stacks of transparent white sheets, labelled and logged. Up close, one would instantly notice all the work behind it — constant small iterative improvements — as well as the temperament that goes with it: caring, collaborative and fun.

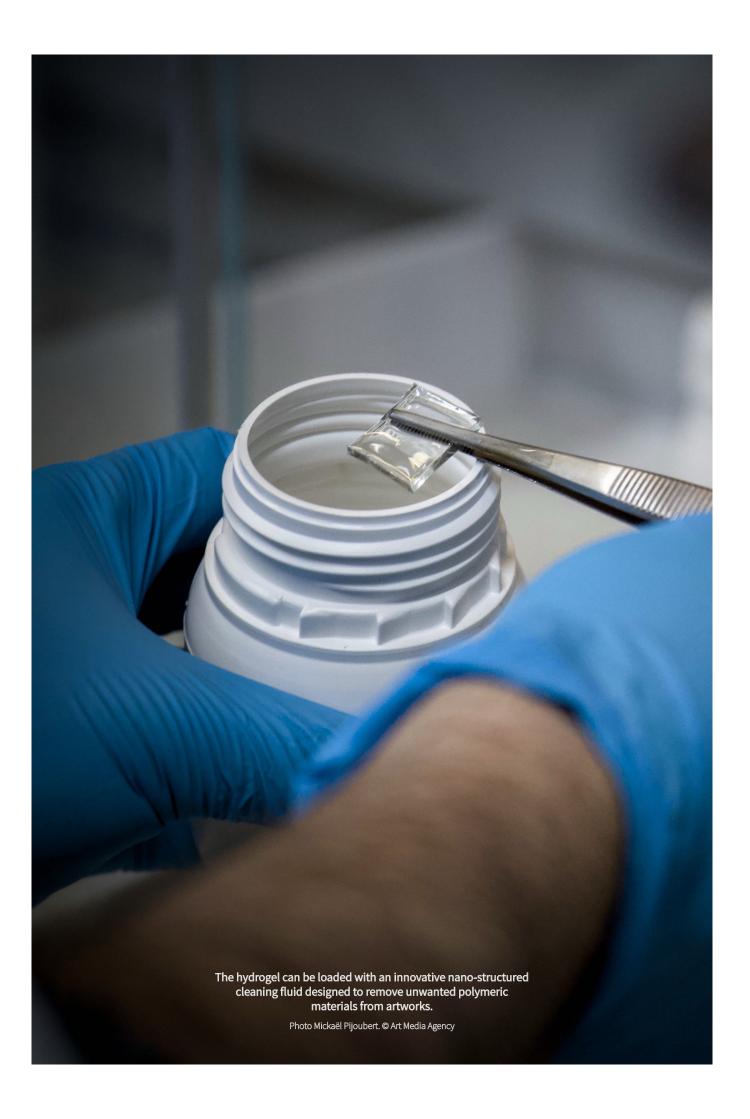


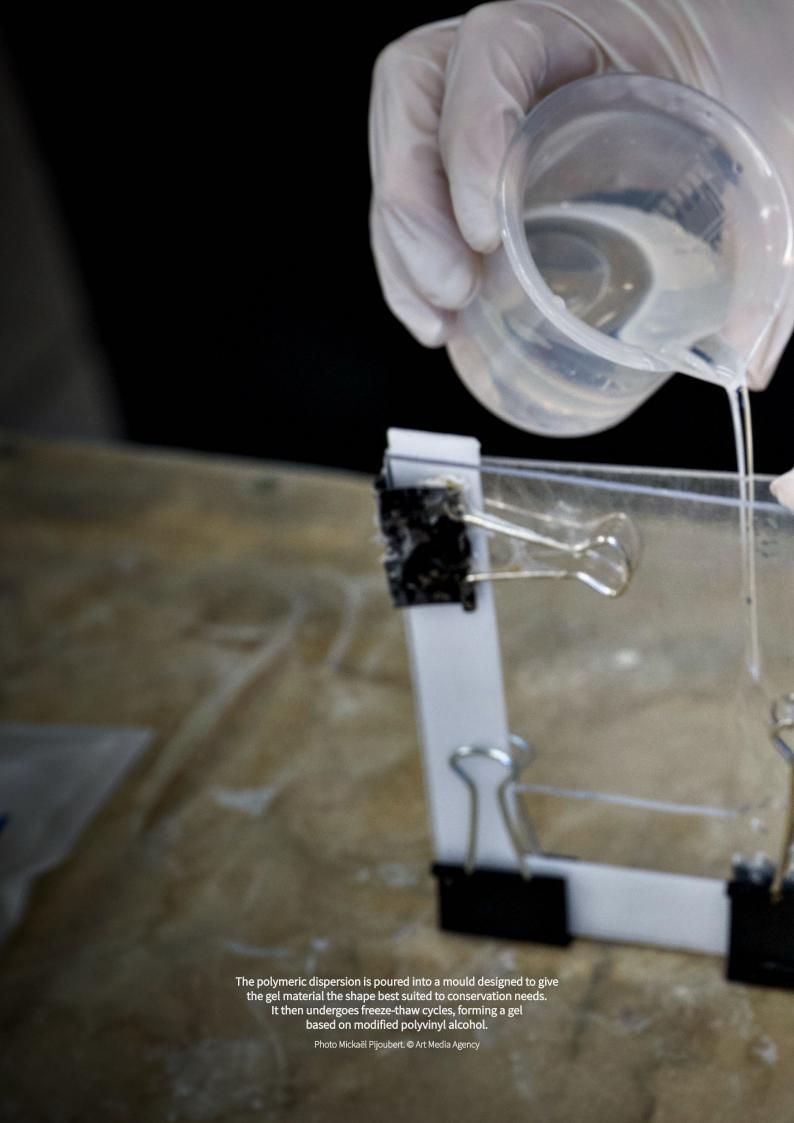




















## PASSIONATE ABOUT ART? SUBSCRIBE TO AMA.

It's free!





## DELEGATE YOUR ART CONTENT PRODUCTION TO AMA.

Simple... there is nothing better!





## WOULD BE NICE TO READ THE MAGAZINE ON THE IPAD...

There is another app. for that!

