

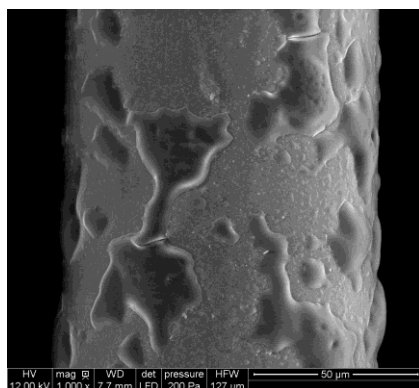
Subject: Development of antimicrobial textiles for professional uses (food industry, hospital, industry). Collaborative R&D project – ACTIPROTEX (France, Rhône-Alpes regional hub TECHTERA).

Technique: SEM-FEG

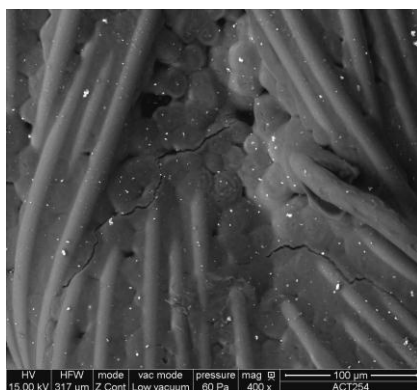
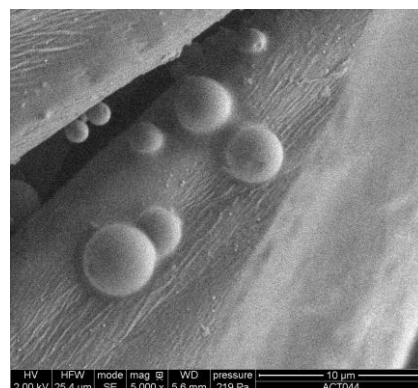
- ✓ morphological characterization of coatings and particles (SE mode)
- ✓ chemical contrast (BSE mode)

Various examples of solutions studied during the project

PHMB coating
obtained by
precipitation (IFTH
patent n°EP 0 955 069)

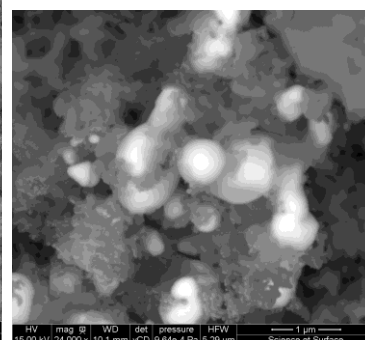
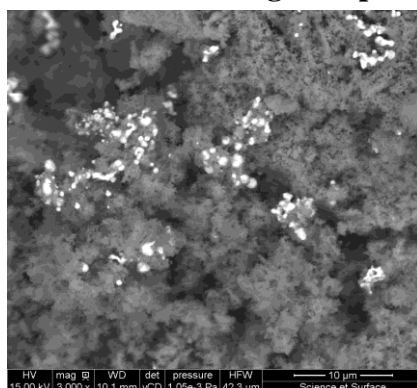


Microcapsules with organic binder (Euracli)



Ag nanoparticles with PE binder (Fibroline)

Ag nanoparticles on host oxide particle (Epidoris)



Conclusion:

SEM was used to validate coating processes on textiles and to correlate the presence of active agents with antimicrobial activity.