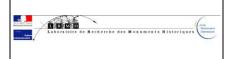




Table of results



1- Pilot Object

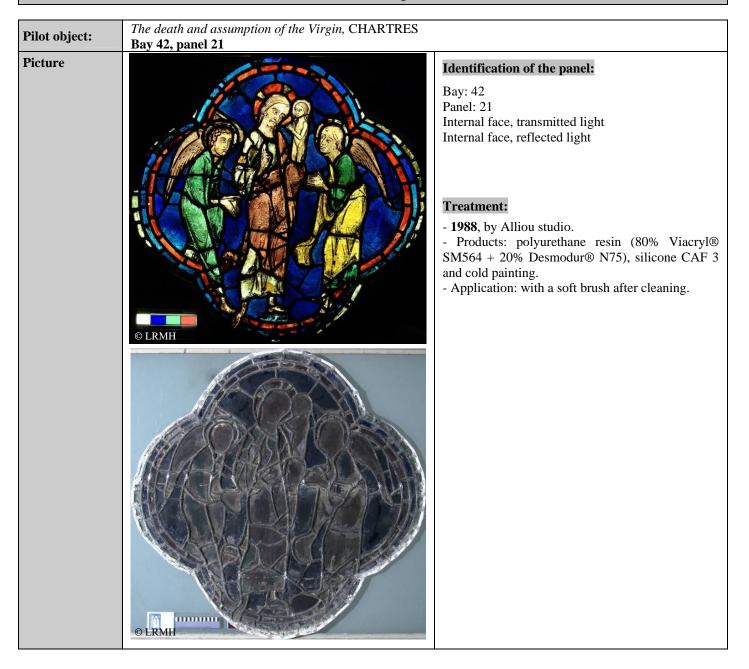
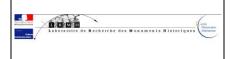






Table of results



2-Results

Sample reference: CHA_b42p21_I_v1: yellow glass with Viacryl® consolidation on internal surface

Questions	Techniques	Answers
Morphology - What is the morphology of the weathered coating? - How is the bonding between coating and glass? © LRMH	Optical Microscope	© LRMH Detail of internal face, reflected and transmitted light. It is covered by dust and corrosion products, which makes difficult to observe Viacryl® consolidant. On this area, the gaps of grisaille are due to bubbles, probably caused by too much baking. But the rest of the paint seems to be safe. Detail of glass paint, reflected light.
	SEM	Not foreseen in this case: sample hasn't been unstopped.
© LRMH	Desktop tomography	Not foreseen in this case: samples too large for tomography system.
White rectangle locate the optical microscope observations	Phase-contrast tomography on Synchrotron	Not foreseen in this case: samples too large for tomography system.
Chemical Composition - What is the chemical composition of the alteration products?	SEM/EDX	On external surface, the white deposit has been sampled. It is calcite coming from the corrosion of the putty.
Organic component composition	FTIR	Not foreseen in this case: sampling is not possible.
	RAMAN	Not foreseen in this case
Microbiology	Molecular biology ATP measurements	Not foreseen in this case, see sample "microbiology tests" at the end of this data sheet.
Reversibility	Test studies Elimination	Not foreseen in this case: consolidation is still effective and not
Re-treatability	Test studies Re-treatability	dangerous for the grisaille.





Table of results



Sample reference:

 $\textit{CHA_b42p20_I_v5}: \textit{brown glass with Viacry} \\ @l \textit{consolidation on internal surface}$

Questions	Techniques	Answers
Morphology - What is the morphology of the weathered coating? - How is the bonding between coating and glass? © LRMH White rectangle locate the optical microscope observations	Optical Microscope	© LRMH Detail of internal face, reflected and transmitted light. Same phenomenon as sample v4 and most of the pieces of this panel: the superficial layer of glass is gone, taking with it the grisaille. Detail of glass paint, reflected
	GEW.	light. It is covered by dust and corrosion products, which makes difficult to observe Viacryl® consolidant. On this area, the gaps of grisaille are due to bubbles, probably caused by too much baking. But the rest of the paint seems to be safe.
	SEM Desktop	Not foreseen in this case: sample hasn't been unstopped.
	tomography	Not foreseen in this case: samples too large for tomography system.
	Phase-contrast tomography on Synchrotron	Not foreseen in this case: samples too large for tomography system.
Chemical Composition	SEM/EDX	Not foreseen in this case: sample hasn't been unstopped.
Organic component composition	FTIR	Not foreseen in this case: sampling is not possible.
- What is its chemical evolution?	RAMAN	Not foreseen in this case: sample hasn't been unstopped.
Microbiology	Molecular biology ATP measurements	Not foreseen in this case, see sample "microbiology tests" at the end of this data sheet.
Reversibility	Test studies	
D 4 1994	Elimination	Not foreseen in this case: consolidation is still effective and not
Re-treatability	Test studies Re-treatability	dangerous for the grisaille.





Table of results



Sample reference	Microbiology tests

Questions	Techniques	Answers
Microbiology - Is there a biological contamination? - Is there an active infestation?	Molecular biology ATP measurements (Microscopical analysis, metabolic activity and taxonomical description of microorganism)	Treatment with VIACRYL® (fine application, in storage): - slight accumulation of dust and dirt, no visible fungal infestation; - low metabolic activity (ATP 143 RLU/25 cm²); - isolated microorganisms: none. Only one sample has been made, as a precaution for the grisaille.

Conclusion: the consolidation is still effective on most of the paints of the panel. There is not much corrosion products, but a lot of putty which was not removed during last restoration. The corrosion of the latter is starting or resuming on some isolated areas. On some pieces, the healthy grisaille is taken off by a thin layer of deteriorated glass. The consolidation does not avoid this phenomenon.