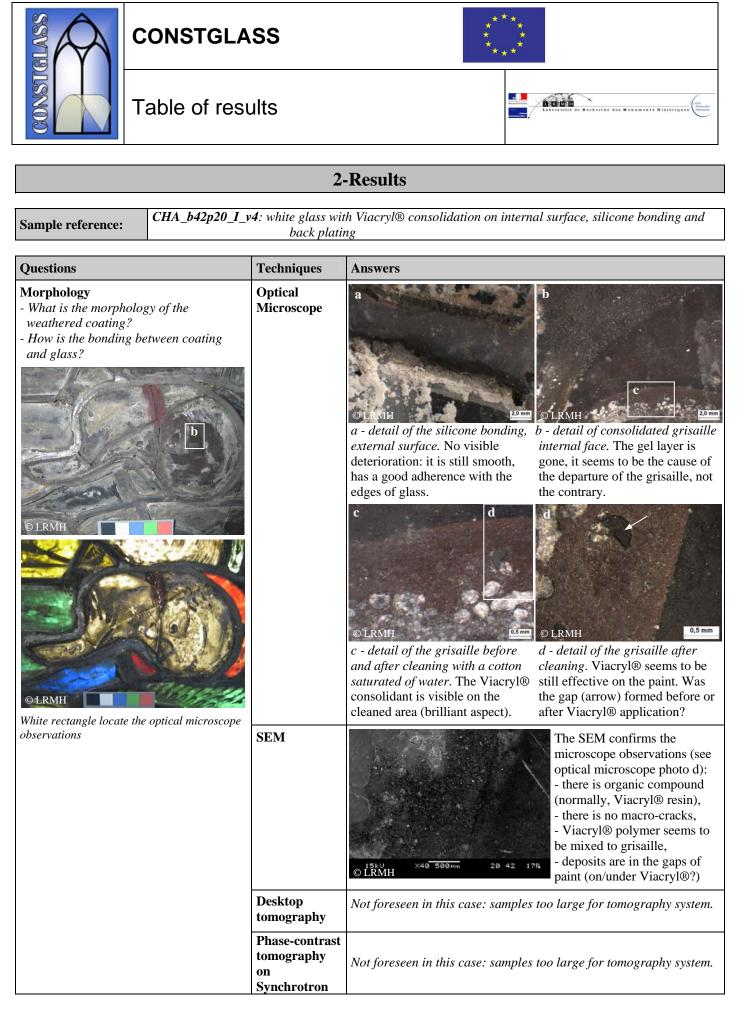


1- Pilot Object			
Pilot object:	The Death and Assumption of the Virgin, CHARTRES Bay 42, panel 20	S	
Pictures		Identification of the panel: Bay: 42 Panel: 20 Internal face, transmitted light Internal face, reflected light Treatment: • 1988, by Alliou studio. • Products: polyurethane resin (80% Viacryl® SM564 + 20% Desmodur® N75), silicone CAF 3 and cold painting. • Application: with a soft brush after cleaning.	





CONSTGLASS



Table of results



Chemical Composition - What is the chemical composition of the alteration products?	SEM/EDX	Calcium sulphate neo-crystallisations (gypsum) on the internal surface. On external surface, the white deposit is calcite, coming from the corrosion of the putty.
Organic component composition	FTIR RAMAN	Not foreseen in this case Not foreseen in this case
Microbiology	Molecular biology ATP measurements	O LRMH
		Dust and soot are observed on the internal side of the recent glass, due to a non-hermetic bonding. But it does not seem to be a cause of microbial contamination. The results on silicone bonding and back plating are the following: • slight accumulation of dust and dirt: no visible fungal infestation; • metabolic activity: not undertaken in this case; • isolated microorganisms; none
Reversibility	Test studies Elimination	 isolated microorganisms: none. Mechanical reversibility of the silicone rubber between back plating and ancient glass is easy: after opening the system with high precautions (with a scalpel), tearing off the joint and scouring with a rubber. Concerning glass paint, nothing was attempted regarding to its good state of concerning. See tests parformed on here 27.
Re-treatability	Test studies Re-treatability	state of conservation. <i>See tests performed on bay 37.</i> Two products were tested to re-treat edge bondings: a new transparent silicone without acetic acid (Silirub N05 neutral, Soudal) and an epoxy rubber (Araldite® 2020, Ciba).
		Both of them were satisfactory during application and have a good mechanical behaviour when dried.No need to re-treat grisaille on this case. See tests performed on bay 37, panel 16.

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.

Regarding silicone rubber on the character's face, the bonding is still effective even after the unstopping of the piece. Concerning the silicone used in back plating, no deterioration and no biological contamination were observed. Removing the polymer is easy, and the re-treatment with neutral silicone is possible.