

	
	

Pilot objects	KLAUSEN
Bay (date)	I, choir axis "Crucifixion and Flight to Egypt" (1878)
Exposure - protective glazing	East
Composition of the product	Mixture of: ORMOCER [®] / Paraloid [®] B 72 / Plexigum PM 381 (80 / 10 / 10), 6% solution in ethyl acetate; applied several times (varied).
Application: date (age of product); studio ; protocol	1991 Cologne Cathedral (protocol)
Morphology	
Direct observation	The ORMOCER [®] treatment was applied on the fired contours; the treatment is visible (darker appearance). During application the ORMOCER [®] sunk sufficiently into the contours and the overlaying film of unfired pigmented oil-lacquer. Today's condition of the ORMOCER [®] -treatment seems stable.
SEM observation	The mix of fired glass paint and unfired paint, dust particles and conservation material cannot be distinguished in detail by SEM-investigation
Desktop Xrays tomography	n/a
Synchrotron tomography	n/a
Chemical behaviour	
FTIR	The roughness of the sample was too high, so μ -ATR or FTIR was not possible.
Raman	n/a
Mechanical behaviour	
	solid
Contamination	
Fungi	low contamination
Bacteriae	low contamination
Active infestation	
Biological activity	normal
Microbiological susceptibility	
	none
Reversibility	
Product 1	tests of reversibility only done at Cologne NVI
Product 2	-
Re-treatability	
Product 1	not necessary, but it might be possible with ORMOCER [®] , Paraloid [®] and other materials
Product 2	
General observations	
	From the conservator's point there is no necessity to remove ORMOCER [®] at the moment.
Recommendations	
Safety/healthy	The solvent part of SZA and Ormocer [®] is highly flammable, the mixtures are also classed as irritants. Vapours may cause drowsiness and dizziness so use in a properly ventilated area is recommended.
Preparation	Both are ready to use solutions; if necessary Ormocer [®] can be diluted in the workshop with methylethylcetone, toluene or butoxyethanol
Application	It can be applied by brush. In most cases several treatments are recommended. Depending on the solvent / mixture of solvents a drying time of about 12 to 24 hours between every step of application is recommended
Future conditions of conservation	It is recommended, at the moment, to keep the consolidant as it is.