




|   |                     |   |
|---|---------------------|---|
|  | <b>CONSTGLASS</b>   |  |
|   | <b>Hxtal®-Nyl-1</b> |  |

| <b>Pilot objects</b>                                   | <b>FRESH MATERIAL</b>  |
|--|--|
| Bay (date)   | samples:<br>LBW/Hxtal/gestr/1<br>LBW/Hxtal/gestr/2<br>LBW/Hxtal/gestr/3  |
| Exposure - protective glazing                          | -  |
| Composition of the product                             | Epoxy resin (two components),<br>resin: based on Epichlorhydrin;<br>hardener: Alkyletheramin, Imidirole<br>mixing ratio: 3 : 1 |
| Application: date (age of product) ; studio ; protocol | 2008<br>Cologne Cathedral,<br>application 1 times,<br>also at sand blasted glasses   |
| <b>Morphology</b>                                      |  |
| Direct observation                                     | at blank surfaces the material contract themself in the middle of the glass, at the rough surfaces good results                |
| SEM observation  | -  |
| Desktop Xrays tomography                               | -  |
| Synchrotron tomography                                 | -  |
| <b>Chemical behaviour</b>                              |  |
| FTIR   | -  |
| Raman  |  |
| <b>Mechanical behaviour</b>                            |  |
|  | stable at rough surfaces   |
| <b>Contamination</b>                                   |  |
| Fungi  | medium   |
| Bacteriae  | no   |
| <b>Active infestation</b>                              |  |
| Biological activity                                    | high   |
| <b>Microbiological susceptibility</b>                  |  |
|  | eventually under moist conditions and roughness increases susceptibility   |
| <b>Reversibility</b>                                   |  |
| Product 1  | not intended<br>it might be possible with Dichlormethan and Tetrahydrofuran  |
| Product 2  |  |
| <b>Re-treatability</b>                                 |  |
| Product 1  | not intended   |
| Product 2  |  |
| <b>General observations</b>                            |  |
|  |  |
| <b>Recommendations</b>                                 |  |
| Safety/healthy   | mask, glove and air exhaust for safety application.  |
| Preparation  | setting time 72h   |
| Application  | fresh material is very liquid, it is easier to use the material after some hours setting time                                  |
| Future conditions of conservation                      |  |