

|                    |                                       |   |
|--------------------|---------------------------------------|---|
| <b>Céra - Labo</b> | <b>F TECH 010</b>                     | <br><br>ACCREDITATION<br>COFRAC<br>N° 4-0014<br>PORTEE<br>DISPONIBLE SUR<br>www.cofrac.fr |
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|                    | <b>RAPPORT ZAC</b>                    |   |
|                    |                                       | Certificat n° 2006101702  |

**REPORT OF PHYSICAL RESISTANCE OF DANOLINE TILES WITH  
DISINFECTANTS**

**N ° 9 03 034 – DANOLINE A/S – KNAUF GROUP / 3 VER.0**



|                             |  |
|-----------------------------|--|
| <b>CLIENT</b>               | Danoline A/S – KNAUF group<br>To the attention of Erik IPSEN<br>Klovermarksvej,6<br>DK 9500 HOBRO<br>DENMARK |
| <b>PRESTATION EFFECTUEE</b> | From 17 April to 17 May 2009   |
| <b>PAR</b>                  | J. HERNANDEZ<br>CERA-LABO<br>ZI de la Montagne de l'Aspre<br>30150 ROQUEMAURE                                |

| Writing by |
|------------|
| Name :     |
| Date :     |
| Signing :  |

| Quality control |
|-----------------|
| Name :          |
| Date :          |
| Signing :       |

|   |              |
|---|--------------|
| Physical resistance of danoline tiles with disinfectants  | 25/05/2009   |
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## I. METHODS USED

### A. PHYSICAL RESISTANCE WITH DISINFECTANTS

#### 1. GOAL

4 products are tested :

- Hexanios : principal component Quaternary ammonium.
- Steranios : principal component glutaraldehyd
- Klercide CR B : principal component Chlorine dioxyd and Quaternary ammonium.
- And Minncare : principal component Hydrogen Peroxyde.

The goal of the test is to see if the danoline tiles could resist to this four disinfectants.

#### 2. METHOD

Danoline tiles is cleaned with disinfectants instead of the draw.

|                             |                             |
|-----------------------------|-----------------------------|
| Without disinfectant        | Pur disinfectant            |
| Disinfectant diluted at 50% | Disinfectant diluted at 25% |

The different dilutions are made with water. The cleaning is made with sterile product called "wipes".

#### 3. RESULTS

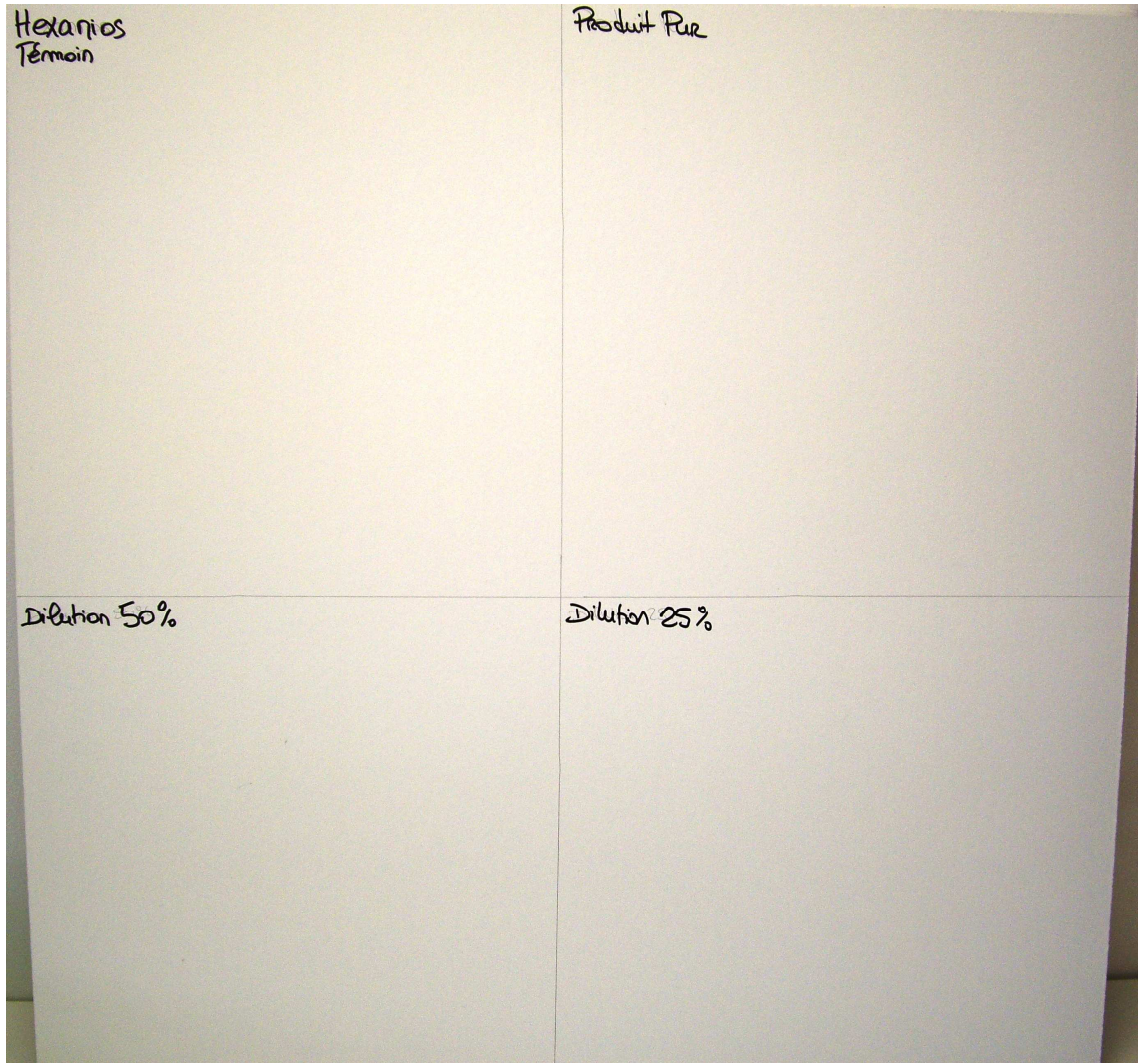
The ceiling membrane is read after 1 month. We look at whether there is a good physical resistance and if we see a colouring or discolouring.



## II. RESULTS

### A. DANOLINE TILES

#### 1. HEXANIOS



| DILUTION | CONFORMITY | COMMENTARY |
|----------|------------|------------|
| PUR      | YES        | -          |
| 50 %     | YES        | -          |
| 25 %     | YES        | -          |



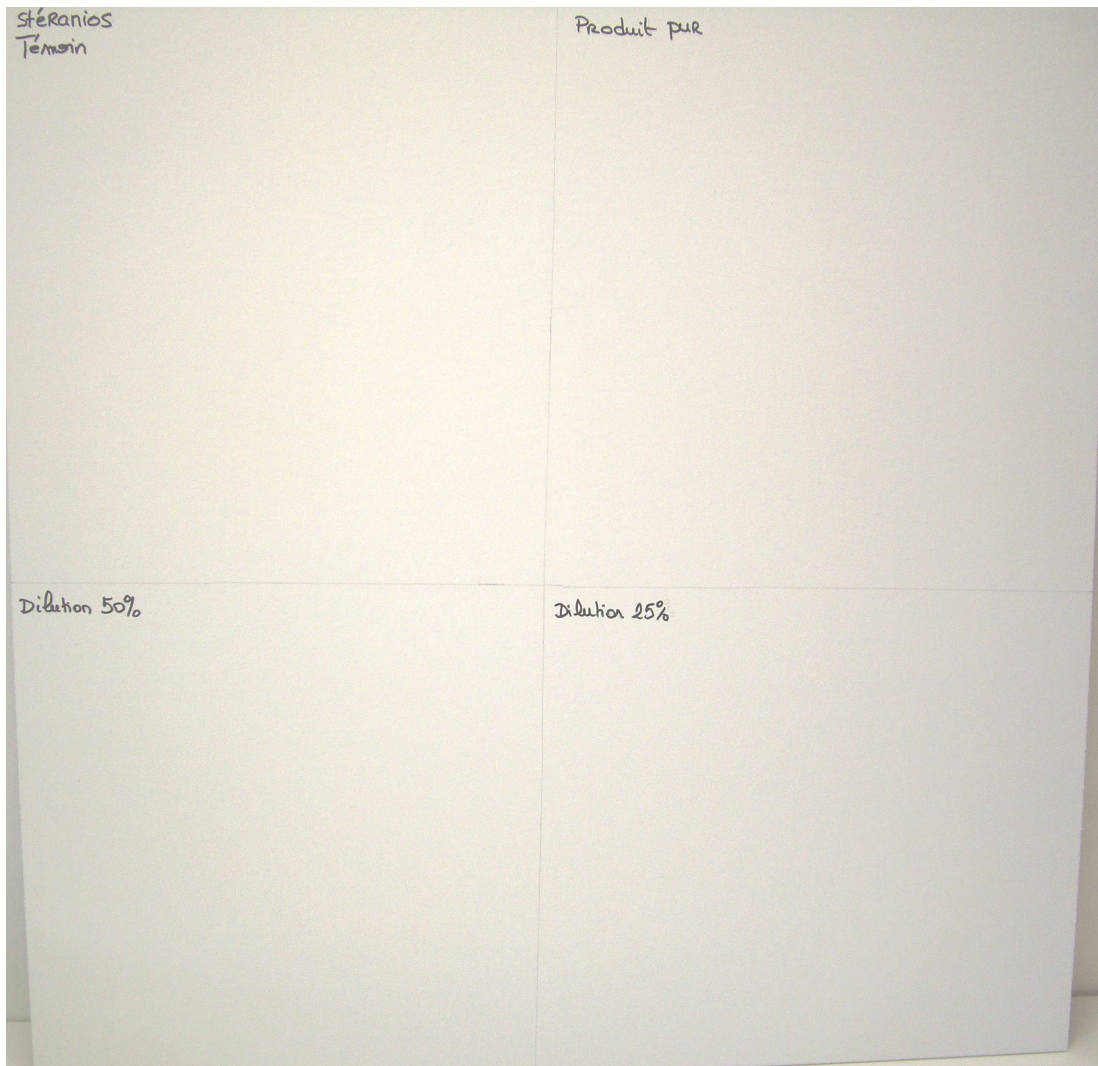
## 2. MINNCARE



| DILUTION | CONFORMITY | COMMENTARY |
|----------|------------|------------|
| PUR      | YES        | -          |
| 50 %     | YES        | -          |
| 25 %     | YES        | -          |



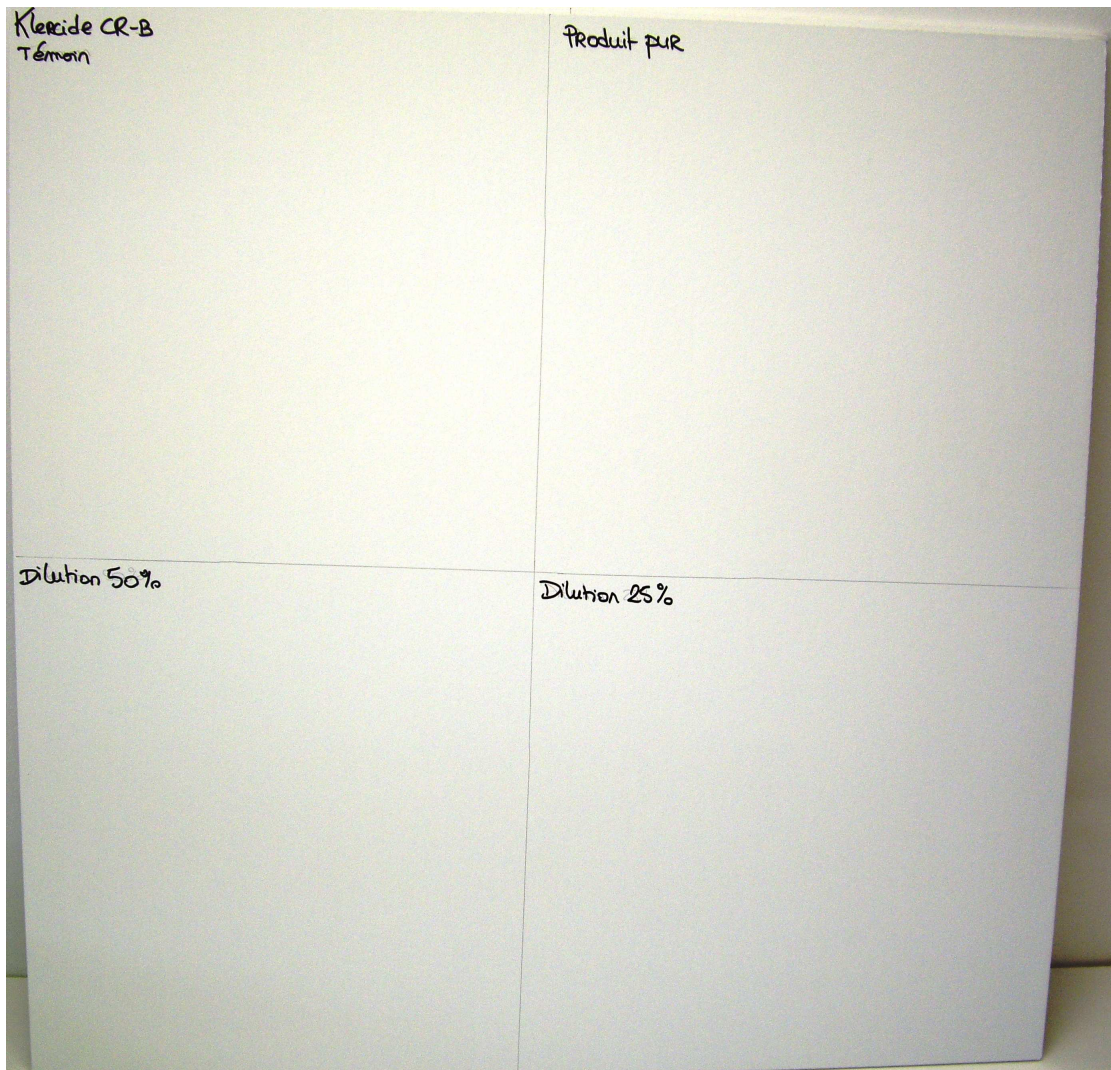
### 3. STERANIOS



| DILUTION | CONFORMITY | COMMENTARY |
|----------|------------|------------|
| PUR      | YES        | -          |
| 50 %     | YES        | -          |
| 25 %     | YES        | -          |



#### 4. KLERCIDE CR B



| DILUTION | CONFORMITY | COMMENTARY |
|----------|------------|------------|
| PUR      | YES        | -          |
| 50 %     | YES        | -          |
| 25 %     | YES        | -          |