

## Test Report on Water proofing barrier System

|                        |                                                                                                                                                                                                                                                                                                                                              |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Customer Name          | SCIB Paints<br>6 <sup>th</sup> of October city ,Egypt                                                                                                                                                                                                                                                                                        |
| Sample name            | Smart Care Water Mine                                                                                                                                                                                                                                                                                                                        |
| Test Method            | ACI 515 IR-79 Chaper 2 section 2.1.1                                                                                                                                                                                                                                                                                                         |
| Room Temperature       | 23 C                                                                                                                                                                                                                                                                                                                                         |
| Room Relative Humidity | 55 %                                                                                                                                                                                                                                                                                                                                         |
| Test description       | Water proofing is treatment of asurface to prevent the passage of water under hydrostatic pressure , 72 hours in autoclave under 5 par and solution positive side barrier system is placed on the same side as the applied hydroststic pressure , Negative side barrier system is placed on the opposite to the applied hydrostatic pressure |

### Test Results

| Test                                     | Results           |                   |                   |                |
|------------------------------------------|-------------------|-------------------|-------------------|----------------|
|                                          | Sample 1          | Sample 2          | Average           | Recommendation |
| Positive hydrostatic water pressure test | Slightly affected | Slightly affected | Slightly affected | pass           |
| Negative hydrostatic water pressure test | Not affected      | Not affected      | Not affected      | pass           |

SPC Director

Prof. Dr. Ashraf EL-Said



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## Test Report on Dampproofing barrier systems

|                        |                                                                                                                             |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Customer Name          | SCIB Paints<br>6 <sup>th</sup> of October city ,Egypt                                                                       |
| Sample name            | Smart Care Water Mine                                                                                                       |
| Test Method            | ACI 515 IR-79 Chapter 2 Section 2.1.2                                                                                       |
| Conditioning procedure | Dampproofing is a treatment of a surface to resist the passage of water in the absence of hydrostatic pressure for 24 hours |
| Room Temperature       | 23 C                                                                                                                        |
| Room Relative Humidity | 55 %                                                                                                                        |

### Test Results

| Test                                 | Results                                      |                                              |                                              |                |
|--------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|----------------|
|                                      | Sample 1                                     | Sample 2                                     | Average                                      | Recommendation |
| Barrier system on interior face test | Not change in colour , not affected by water | Not change in colour , not affected by water | Not change in colour , not affected by water | pass           |
| Barrier system on exterior face test | Not affected                                 | Not affected                                 | Not affected                                 | pass           |



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## Test Report on Protective barrier System

|                                     |                                                                                                                                                                                                                                                                                  |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Customer Name                       | SCIB Paints<br>6 <sup>th</sup> of October city ,Egypt                                                                                                                                                                                                                            |
| Sample name                         | Smart Care Water Mine                                                                                                                                                                                                                                                            |
| Test Method                         | ACI 515 IR-79 Chapter 2 Section 2.1.3                                                                                                                                                                                                                                            |
| Conditioning procedure              | Protective barrier systems are used to protect concrete from degradation by chemicals , so water mine coat applied by thickness 250 $\mu$ m on concrete 100mmx100mm and immersed in dil Hcl for 7 days and study the effect of chemical on adhesion and abrasion befor and after |
| Room Temperature, Relative Humidity | 23 C & 55 %                                                                                                                                                                                                                                                                      |

### Test Results

| Test                           | Results  |          |         |                |
|--------------------------------|----------|----------|---------|----------------|
|                                | Sample 1 | Sample 2 | Average | Recommendation |
| Adhesion befor immersion (MPa) | 2.4      | 3.0      | 2.7     | pass           |
| Adhesion After immersion (MPa) | 2.1      | 2.6      | 2.35    | pass           |
| Abrasion befor immersion (mg ) | 85       | 78       | 81.5    | pass           |
| Abrasion after immersion (mg ) | 97       | 84       | 90.5    | pass           |



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## Test Report on Specification for emulsion used as protective coating for roofing

|                        |                                                       |
|------------------------|-------------------------------------------------------|
| Customer Name          | SCIB Paints<br>6 <sup>th</sup> of October city ,Egypt |
| Sample name            | Smart Care Water Mine                                 |
| Test Method            | ASTM D1227 Type 3 Class 1                             |
| Room Temperature       | 23 C                                                  |
| Room Relative Humidity | 50 %                                                  |

### Test Results

| Test                     | Results  |          |         |                |      |                |
|--------------------------|----------|----------|---------|----------------|------|----------------|
|                          | Sample 1 | Sample 2 | Average | Standard limit |      | Recommendation |
|                          |          |          |         | Max            | Min. |                |
| Weight per litre, g      | 985      | 987      | 986     | 1080           | 980  | pass           |
| Residue by evaporation % | 52.5     | 52.7     | 52.6    | 47             | 53   | pass           |
| Ash content of residue % | 9        | 9.2      | 9.1     | -              | 8    | -              |
| Water content %          | 47.5     | 47.3     | 47.4    | 0              | 53   | pass           |
| Firm set, h              | 24       | 24       | 24      | -              | 24   | pass           |



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