

## Selemix Paint systems – ISO certifications

Certifications have been released by an external laboratory for the following Selemix paint systems:

- Paint system 1** - Selemix epoxy primer 7-413 / Selemix epoxy topcoat 7-410
- Paint system 2** - Selemix epoxy primer 7-413 / Selemix PUR extra topcoat 7-512
- Paint system 3** - Selemix epoxy primer 7-413 / Selemix acrylic topcoat 7-110
- Paint system 4** - Selemix PUR primer 2.705.0500 / Selemix PUR extra topcoat 7-512
- Paint system 5** - Selemix PUR primer 2.705.0500 / Selemix UHS acrylic topcoat 7-120
- Paint system 6** - Selemix direct to metal topcoat 7-534
- Paint system 7** - Zinc rich epoxy primer + intermediate epoxy coating + High build acrylic topcoat
- Paint system 8** - Zinc rich epoxy primer + PUR extra topcoat
- Paint system 9** - Zinc rich epoxy primer + DTM topcoat
- Paint system 10** - Anticorrosive epoxy primer + High build acrylic topcoat
- Paint system 11** - Anticorrosive epoxy primer + PUR extra topcoat

The purpose is to provide you:

- a reliable guide in the selection of the paint systems meeting different customer specifications
- a broad choice of Selemix anticorrosive paint systems in terms of quality, price and durability
- certifications based on International Standards recognized in the industrial market

### Classification of environments ISO 12944-2

| CORROSION |   |  |
|-----------|---|--|
| CLASSES   | Typical Exterior Environments   | Typical Interior Environments  |
| C1        | -   | Heated buildings with clean atmospheres e.g. Offices, schools, shops, hotels                                       |
| C2        | Atmospheres with low level of pollution. Mostly rural areas.  | Unheated buildings where condensation may occur e.g. depots, warehouses, sports halls                              |
| C3        | Urban and industrial atmospheres, moderate sulfur dioxide pollution. Coastal areas with low salinity. | Production rooms with high humidity and some air pollution (food processing plants, laundries, breweries, dairies) |
| C4        | Industrial areas and coastal areas with moderate salinity.  | Chemical plants, swimming pools, coastal shipyards.  |
| C5-I      | Industrial areas with high humidity and aggressive atmosphere.  | Buildings or areas with almost permanent condensation and high pollution   |
| C5-M      | Coastal and offshore areas with high salinity.  | Buildings or areas with almost permanent condensation and high pollution   |

Approximately durability periods is categorized as follows:

- High = over 15 years
- Medium = 5-15 years
- Low = 2-5 years

The durability ranges provide an indication of the lifetime of the system before the first major maintenance work is required.

### Selemix test results

Table below summarizes tests results for each Selemix paint cycle in accordance to ISO 12944-6.

**SELEMIX ISO 12944 TEST RESULTS**

| Paint system nr. | Substrate         | Surface preparation | Primer                | Topcoat                   | Paint system DFT (µM) | Corrosion class & durability                 |
|------------------|-------------------|---------------------|-----------------------|---------------------------|-----------------------|--|
| 1                | Steel             | Sa <sub>2 1/2</sub> | Epoxy primer 7-413    | Epoxy topcoat 7-410       | 195                   | C3-Medium<br>C4-Low                          |
| 1                | Zinc-coated steel |                     | Epoxy primer 7-413    | Epoxy topcoat 7-410       | 200                   | C2-High<br>C3-High<br>C4-Medium<br>C5-M-Low  |
| 2                | Steel             | Sa <sub>2 1/2</sub> | Epoxy primer 7-413    | PUR topcoat 7-512         | 200                   | C3-High<br>C4-Medium<br>C5-M-Low             |
| 2                | Zinc-coated steel |                     | Epoxy primer 7-413    | PUR topcoat 7-512         | 210                   | C2-High<br>C3-High<br>C4-Medium<br>C5-M-Low  |
| 3                | Steel             | Sa <sub>2 1/2</sub> | Epoxy primer 7-413    | Acrylic topcoat 7-110     | 220                   | C3-Medium<br>C4-Low                          |
| 3                | Zinc-coated steel |                     | Epoxy primer 7-413    | Acrylic topcoat 7-110     | 230                   | not classified                               |
| 4                | Steel             | Sa <sub>2 1/2</sub> | PUR primer 2.705.0500 | PUR topcoat 7-512         | 230                   | C3-High<br>C4-Medium<br>C5-M-Low             |
| 4                | Zinc-coated steel |                     | PUR primer 2.705.0500 | PUR topcoat 7-512         | 240                   | C2-High<br>C3- High<br>C4-Medium<br>C5-M-Low |
| 5                | Steel             | Sa <sub>2 1/2</sub> | PUR primer 2.705.0500 | Acrylic UHS topcoat 7-120 | 230                   | C3-High<br>C4-Medium<br>C5-M-Low             |
| 5                | Zinc-coated steel |                     | PUR primer 2.705.0500 | Acrylic UHS topcoat 7-120 | 240                   | C2-High<br>C3-High<br>C4-Medium<br>C5-M-Low  |
| 6                | Steel             | Sa <sub>2 1/2</sub> | -                     | PUR direct topcoat 7-534  | 160                   | C3-High<br>C4-Medium<br>C5-M-Low             |
| 6                | Zinc-coated steel |                     | -                     | PUR direct topcoat 7-534  | 180                   | C2-High<br>C3-High<br>C4-Medium<br>C5-M-Low  |

| Paint system nr. | Substrate | Surface preparation | Zinc epoxy primer                 | Primer                                   | Topcoat                  | Paint system DFT (µM) | Corrosion class & durability |
|------------------|-----------|---------------------|-----------------------------------|--|--------------------------|-----------------------|------------------------------|
| 7                | Steel     | Sa <sub>2 1/2</sub> | Zinc rich epoxy primer 2.704.0490 | HB anticorrosive epoxy primer 2.704.0440 | HB acrylic topcoat 7-130 | 350                   | C5-I High<br>C5-M High       |



### SELEMIX ISO 12944 TEST RESULTS

|    |                   |                     |                                   |  |                                  |     |                        |
|----|-------------------|---------------------|-----------------------------------|--|----------------------------------|-----|------------------------|
| 8  | Steel             | Sa 2 <sup>1/2</sup> | Zinc rich epoxy primer 2.704.0490 | -  | PUR extra topcoat 7-512          | 295 | C5-I High<br>C5-M High |
| 9  | Steel             | Sa 2 <sup>1/2</sup> | Zinc rich epoxy primer 2.704.0490 | -  | 2K Direct to metal topcoat 7-534 | 300 | C5-I High<br>C5-M High |
| 10 | Steel             | Sa 2 <sup>1/2</sup> | -                                 | HB anticorrosive epoxy primer 2.704.0440 | HB acrylic topcoat 7-130         | 300 | C5-I High<br>C5-M High |
| 10 | Zinc-coated steel | -                   | -                                 | HB anticorrosive epoxy primer 2.704.0440 | HB acrylic topcoat 7-130         | 270 | C5-I High<br>C5-M High |
| 11 | Steel             | Sa 2 <sup>1/2</sup> | -                                 | HB anticorrosive epoxy primer 2.704.0440 | PUR extra topcoat 7-512          | 250 | C5-I High<br>C5-M High |
| 11 | Zinc-coated steel | -                   | -                                 | HB anticorrosive epoxy primer 2.704.0440 | PUR extra topcoat 7-512          | 250 | C5-I High<br>C5-M High |