

# ISO 12944

## SYSTEMS GUIDE 2020 EDITION

COMPLIANT WITH ISO 12944-5:2018 INDEPENDENTLY TESTED



## Independently tested systems – third party laboratory certificates available.

Reference to corrosivity environments and durability levels refer to ISO 12944:2018 definitions.

## C2 ENVIRONMENT

### C2 HIGH DURABILITY: 15–25 YRS

| System | Product chemistry | Coating system    | Thickness dft (um) | Certificate     |
|--------|-------------------|-------------------|--------------------|-----------------|
| 1      | Epoxy             | Macropoxy 400     | 120                | Element         |
|        |                   | <b>TOTAL</b>      | <b>120</b>         | ERO027446-1-C2H |
| 2      | Epoxy             | Macropoxy 646     | 120                | Element         |
|        |                   | <b>TOTAL</b>      | <b>120</b>         | ERO027446-3-C2H |
| 3      | Epoxy             | Macropoxy 267     | 120                | Element         |
|        |                   | <b>TOTAL</b>      | <b>120</b>         | ERO027446-2-C2H |
| 4      | Polyaspartic      | Envirolastic 2500 | 120                | Element         |
|        |                   | <b>TOTAL</b>      | <b>120</b>         | ERO027446-4-C2H |
| 5      | Alkyd             | Kem-Kromik 155    | 80                 | Element         |
|        |                   | Kem-Kromik 155    | 80                 | ERO029057-1-C2H |
|        |                   | <b>TOTAL</b>      | <b>160</b>         |                 |
| 6      | Epoxy             | Macropoxy 400     | 70                 | Element         |
|        | Polyurethane      | Acrolon 7300      | 50                 | ERO029057-2-C2H |
|        |                   | <b>TOTAL</b>      | <b>120</b>         |                 |

The durability range is not a "guarantee time". Durability is a technical consideration / planning parameter that can help the owner set up a maintenance programme. A guarantee time is a consideration that is the legal subject of clauses in the administrative part of the contract. The guarantee time is usually shorter than the durability range. There are no rules that link the two periods of time.

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## C2 ENVIRONMENT

C2 VERY HIGH DURABILITY: >25 YRS

| System | Product chemistry | Coating system    | Thickness dft (um) | Certificate      |
|--------|-------------------|-------------------|--------------------|------------------|
| 1      | Epoxy             | Macropoxy 400     | 125                | Element          |
|        | Polyurethane      | Acrolon 7300      | 55                 | ERO027446-5-C2VH |
|        | <b>TOTAL</b>      |                   | <b>180</b>         |                  |
| 2      | Epoxy             | Macropoxy 646     | 125                | Element          |
|        | Polyurethane      | Acrolon 7300      | 55                 | ERO027446-6-C2VH |
|        | <b>TOTAL</b>      |                   | <b>180</b>         |                  |
| 3      | Polyaspartic      | Envirolastic 2500 | 180                | Element          |
|        |                   | <b>TOTAL</b>      | <b>180</b>         | ERO027446-7-C2VH |
| 4      | Epoxy             | Macropoxy 400     | 180                | Element          |
|        |                   | <b>TOTAL</b>      | <b>180</b>         | ERO029057-3-C2VH |
| 5      | Epoxy             | Macropoxy 400     | 90                 | Element          |
|        |                   | Macropoxy 400     | 90                 | ERO029057-4-C2VH |
|        |                   | <b>TOTAL</b>      | <b>180</b>         |                  |
| 6      | Epoxy             | Macropoxy 400     | 100                | Element          |
|        | Acrylic epoxy     | Acrolon 1850      | 80                 | ERO029057-5-C2VH |
|        | <b>TOTAL</b>      |                   | <b>180</b>         |                  |

The durability range is not a "guarantee time". Durability is a technical consideration / planning parameter that can help the owner set up a maintenance programme. A guarantee time is a consideration that is the legal subject of clauses in the administrative part of the contract. The guarantee time is usually shorter than the durability range. There are no rules that link the two periods of time.

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## C3 ENVIRONMENT

C3 MEDIUM DURABILITY: 7-15 YRS

| System | Product chemistry | Coating system    | Thickness dft (um) | Certificate     |
|--------|-------------------|-------------------|--------------------|-----------------|
| 1      | Epoxy             | Macropoxy 400     | 120                | Element         |
|        |                   | <b>TOTAL</b>      | <b>120</b>         | ERO027446-1-C3M |
| 2      | Epoxy             | Macropoxy 646     | 120                | Element         |
|        |                   | <b>TOTAL</b>      | <b>120</b>         | ERO027446-3-C3M |
| 3      | Epoxy             | Macropoxy 267     | 120                | Element         |
|        |                   | <b>TOTAL</b>      | <b>120</b>         | ERO027446-2-C3M |
| 4      | Polyaspartic      | Envirolastic 2500 | 120                | Element         |
|        |                   | <b>TOTAL</b>      | <b>120</b>         | ERO027446-4-C3M |
| 5      | Epoxy             | Fast Clad 7220    | 120                | Element         |
|        |                   | <b>TOTAL</b>      | <b>120</b>         | ERO027187-1-C3M |
| 6      | Epoxy             | Fast Clad 7240    | 120                | Element         |
|        |                   | <b>TOTAL</b>      | <b>120</b>         | ERO027187-2-C3M |

The durability range is not a "guarantee time". Durability is a technical consideration / planning parameter that can help the owner set up a maintenance programme. A guarantee time is a consideration that is the legal subject of clauses in the administrative part of the contract. The guarantee time is usually shorter than the durability range. There are no rules that link the two periods of time.

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### C3 ENVIRONMENT

#### C3 HIGH DURABILITY: 15–25 YRS

| System | Product chemistry | Coating system    | Thickness dft (um) | Certificate      |
|--------|-------------------|-------------------|--------------------|------------------|
| 1      | Epoxy             | Fast Clad 7220    | 125                | Element          |
|        | Polyurethane      | Acrolon 7300      | 55                 | ERO027187-6-C3H  |
|        | <b>TOTAL</b>      |                   | <b>180</b>         |                  |
| 2      | Epoxy             | Fast Clad 7220    | 100                | Element          |
|        | Acrylic epoxy     | Acrolon 1850      | 80                 | ERO027187-10-C3H |
|        | <b>TOTAL</b>      |                   | <b>180</b>         |                  |
| 3      | Epoxy             | Fast Clad 7240    | 100                | Element          |
|        | Acrylic epoxy     | Acrolon 1850      | 80                 | ERO027187-11-C3H |
|        | <b>TOTAL</b>      |                   | <b>180</b>         |                  |
| 4      | Epoxy             | Fast Clad 7240    | 125                | Element          |
|        | Polyurethane      | Acrolon 7300      | 55                 | ERO027187-12-C3H |
|        | <b>TOTAL</b>      |                   | <b>180</b>         |                  |
| 5      | Epoxy             | Macropoxy 400     | 125                | Element          |
|        | Polyurethane      | Acrolon 7300      | 55                 | ERO027446-5-C3H  |
|        | <b>TOTAL</b>      |                   | <b>180</b>         |                  |
| 6      | Epoxy             | Macropoxy 646     | 125                | Element          |
|        | Polyurethane      | Acrolon 7300      | 55                 | ERO027446-6-C3H  |
|        | <b>TOTAL</b>      |                   | <b>180</b>         |                  |
| 7      | Polyaspartic      | Envirolastic 2500 | 180                | Element          |
|        |                   | <b>TOTAL</b>      | <b>180</b>         | ERO027446-7-C3H  |
| 8      | Epoxy             | Macropoxy 400     | 180                | Element          |
|        |                   | <b>TOTAL</b>      | <b>180</b>         | ERO029057-3-C3H  |
| 9      | Epoxy             | Macropoxy 400     | 90                 | Element          |
|        |                   | Macropoxy 400     | 90                 |                  |
|        |                   | <b>TOTAL</b>      | <b>180</b>         | ERO029057-4-C3H  |
| 10     | Epoxy             | Macropoxy 400     | 100                | Element          |
|        | Acrylic epoxy     | Acrolon 1850      | 80                 | ERO029057-5-C3H  |
|        | <b>TOTAL</b>      |                   | <b>180</b>         |                  |

The durability range is not a "guarantee time". Durability is a technical consideration / planning parameter that can help the owner set up a maintenance programme. A guarantee time is a consideration that is the legal subject of clauses in the administrative part of the contract. The guarantee time is usually shorter than the durability range. There are no rules that link the two periods of time.

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## C3 ENVIRONMENT

C3 VERY HIGH DURABILITY: >25 YRS

| System | Product chemistry | Coating system    | Thickness dft (um) | Certificate       |
|--------|-------------------|-------------------|--------------------|-------------------|
| 1      | Epoxy             | Fast Clad 7220    | 80                 | Element           |
|        | Epoxy             | Fast Clad 7220    | 80                 | ERO027187-7-C3VH  |
|        | Acrylic epoxy     | Acrolon 1850      | 80                 |                   |
|        | <b>TOTAL</b>      |                   | <b>240</b>         |                   |
| 2      | Epoxy             | Macropoxy 400     | 190                | Element           |
|        | Polyurethane      | Acrolon 7300      | 50                 | ERO027446-8-C3VH  |
|        | <b>TOTAL</b>      |                   | <b>240</b>         |                   |
| 3      | Polysiloxane      | Sher-Loxane 800   | 120                | Element           |
|        |                   | Sher-Loxane 800   | 120                | ERO027446-10-C3VH |
|        | <b>TOTAL</b>      |                   | <b>240</b>         |                   |
| 4      | Epoxy             | Macropoxy 400     | 140                | Element           |
|        | Polyaspartic      | Envirolastic 2500 | 100                | ERO027187-20-C3VH |
|        | <b>TOTAL</b>      |                   | <b>240</b>         |                   |
| 5      | Epoxy             | Macropoxy 400     | 120                | Element           |
|        |                   | Macropoxy 400     | 120                | ERO029057-7-C3VH  |
|        | <b>TOTAL</b>      |                   | <b>240</b>         |                   |
| 6      | Epoxy             | Macropoxy 646     | 190                | Element           |
|        | Polyurethane      | Acrolon 7300      | 50                 | ERO029057-10-C3VH |
|        | <b>TOTAL</b>      |                   | <b>240</b>         |                   |
| 7      | Epoxy             | Fast Clad 7220    | 190                | Element           |
|        | Polyurethane      | Acrolon 7300      | 50                 | ERO029057-12-C3VH |
|        | <b>TOTAL</b>      |                   | <b>240</b>         |                   |
| 8      | Epoxy             | Macropoxy 400     | 160                | Element           |
|        | Acrylic epoxy     | Acrolon 1850      | 80                 | ERO029057-13-C3VH |
|        | <b>TOTAL</b>      |                   | <b>240</b>         |                   |

The durability range is not a "guarantee time". Durability is a technical consideration / planning parameter that can help the owner set up a maintenance programme. A guarantee time is a consideration that is the legal subject of clauses in the administrative part of the contract. The guarantee time is usually shorter than the durability range. There are no rules that link the two periods of time.

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## C4 ENVIRONMENT

C4 LOW DURABILITY: <7 YRS

| System | Product chemistry | Coating system    | Thickness dft (um) | Certificate     |
|--------|-------------------|-------------------|--------------------|-----------------|
| 1      | Epoxy             | Macropoxy 400     | 120                | Element         |
|        |                   | <b>TOTAL</b>      | <b>120</b>         | ERO027446-1-C4L |
| 2      | Epoxy             | Macropoxy 646     | 120                | Element         |
|        |                   | <b>TOTAL</b>      | <b>120</b>         | ERO027446-3-C4L |
| 3      | Epoxy             | Macropoxy 267     | 120                | Element         |
|        |                   | <b>TOTAL</b>      | <b>120</b>         | ERO027446-2-C4L |
| 4      | Polyaspartic      | Envirolastic 2500 | 120                | Element         |
|        |                   | <b>TOTAL</b>      | <b>120</b>         | ERO027446-4-C4L |

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## C4 ENVIRONMENT

### C4 MEDIUM DURABILITY: 7-15 YRS

| System | Product chemistry | Coating system    | Thickness dft (um) | Certificate      |
|--------|-------------------|-------------------|--------------------|------------------|
| 1      | Epoxy             | Fast Clad 7220    | 125                | Element          |
|        | Polyurethane      | Acrolon 7300      | 55                 | ERO027187-6-C4M  |
|        | <b>TOTAL</b>      |                   | <b>180</b>         |                  |
| 2      | Epoxy             | Fast Clad 7220    | 100                | Element          |
|        | Acrylic epoxy     | Acrolon 1850      | 80                 | ERO027187-10-C4M |
|        | <b>TOTAL</b>      |                   | <b>180</b>         |                  |
| 3      | Epoxy             | Fast Clad 7240    | 100                | Element          |
|        | Acrylic epoxy     | Acrolon 1850      | 80                 | ERO027187-11-C4M |
|        | <b>TOTAL</b>      |                   | <b>180</b>         |                  |
| 4      | Epoxy             | Fast Clad 7240    | 125                | Element          |
|        | Polyurethane      | Acrolon 7300      | 55                 | ERO027187-12-C4M |
|        | <b>TOTAL</b>      |                   | <b>180</b>         |                  |
| 5      | Epoxy             | Macropoxy 400     | 125                | Element          |
|        | Polyurethane      | Acrolon 7300      | 55                 | ERO027446-5-C4M  |
|        | <b>TOTAL</b>      |                   | <b>180</b>         |                  |
| 6      | Epoxy             | Macropoxy 646     | 125                | Element          |
|        | Polyurethane      | Acrolon 7300      | 55                 | ERO027446-6-C4M  |
|        | <b>TOTAL</b>      |                   | <b>180</b>         |                  |
| 7      | Polyaspartic      | Envirolastic 2500 | 180                | Element          |
|        |                   | <b>TOTAL</b>      | <b>180</b>         | ERO027446-7-C4M  |
| 8      | Epoxy             | Macropoxy 400     | 180                | Element          |
|        |                   | <b>TOTAL</b>      | <b>180</b>         | ERO029057-3-C4M  |
| 9      | Epoxy             | Macropoxy 400     | 90                 | Element          |
|        |                   | Macropoxy 400     | 90                 |                  |
|        |                   | <b>TOTAL</b>      | <b>180</b>         | ERO029057-4-C4M  |
| 10     | Epoxy             | Macropoxy 400     | 100                | Element          |
|        | Acrylic epoxy     | Acrolon 1850      | 80                 | ERO029057-5-C4M  |
|        | <b>TOTAL</b>      |                   | <b>180</b>         |                  |

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## C4 ENVIRONMENT

### C4 HIGH DURABILITY: 15-25 YRS

| System | Product chemistry | Coating system    | Thickness dft (um) | Certificate      |
|--------|-------------------|-------------------|--------------------|------------------|
| 1      | Epoxy             | Fast Clad 7220    | 80                 | Element          |
|        | Epoxy             | Fast Clad 7220    | 80                 | ERO027187-7-C4H  |
|        | Acrylic epoxy     | Acrolon 1850      | 80                 |                  |
|        |                   | <b>TOTAL</b>      | <b>240</b>         |                  |
| 2      | Epoxy             | Macropoxy 400     | 190                | Element          |
|        | Polyurethane      | Acrolon 7300      | 50                 | ERO027446-8-C4H  |
|        |                   | <b>TOTAL</b>      | <b>240</b>         |                  |
| 3      | Polysiloxane      | Sher-Loxane 800   | 120                | Element          |
|        |                   | Sher-Loxane 800   | 120                | ERO027446-10-C4H |
|        |                   | <b>TOTAL</b>      | <b>240</b>         |                  |
| 4      | Epoxy             | Macropoxy 400     | 140                | Element          |
|        | Polyaspartic      | Envirolastic 2500 | 100                | ERO027187-20-C4H |
|        |                   | <b>TOTAL</b>      | <b>240</b>         |                  |
| 5      | Epoxy             | Macropoxy 400     | 120                | Element          |
|        |                   | Macropoxy 400     | 120                | ERO029057-7-C4H  |
|        |                   | <b>TOTAL</b>      | <b>240</b>         |                  |
| 6      | Epoxy             | Macropoxy 646     | 190                | Element          |
|        | Polyurethane      | Acrolon 7300      | 50                 | ERO029057-10-C4H |
|        |                   | <b>TOTAL</b>      | <b>240</b>         |                  |
| 7      | Epoxy             | Fast Clad 7220    | 190                | Element          |
|        | Polyurethane      | Acrolon 7300      | 50                 | ERO029057-12-C4H |
|        |                   | <b>TOTAL</b>      | <b>240</b>         |                  |
| 8      | Epoxy             | Macropoxy 400     | 160                | Element          |
|        | Acrylic epoxy     | Acrolon 1850      | 80                 | ERO029057-13-C4H |
|        |                   | <b>TOTAL</b>      | <b>240</b>         |                  |

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## C4 ENVIRONMENT

### C4 VERY HIGH DURABILITY REGIME 1: >25 YRS

| System | Product chemistry | Coating system | Thickness dft (um) | Certificate       |
|--------|-------------------|----------------|--------------------|-------------------|
| 1      | Epoxy             | Macropoxy 400  | 125                | Element           |
|        | Epoxy             | Macropoxy 400  | 125                | ERO027446-11-C4VH |
|        | Polyurethane      | Acrolon 7300   | 50                 |                   |
|        | <b>TOTAL</b>      |                | <b>300</b>         |                   |
| 2      | Epoxy             | Macropoxy 646  | 125                | Element           |
|        | Epoxy             | Macropoxy 646  | 125                | ERO027446-12-C4VH |
|        | Polyurethane      | Acrolon 7300   | 50                 |                   |
|        | <b>TOTAL</b>      |                | <b>300</b>         |                   |
| 3      | Epoxy             | Macropoxy 400  | 150                | Element           |
|        | Epoxy             | Macropoxy 400  | 150                | ERO029057-20-C4VH |
|        | <b>TOTAL</b>      |                | <b>300</b>         |                   |
| 4      | Epoxy             | Macropoxy 400  | 300                | Element           |
|        | <b>TOTAL</b>      |                | <b>300</b>         | ERO029057-21-C4VH |
| 5      | Epoxy             | Macropoxy 400  | 250                | Element           |
|        | Polyurethane      | Acrolon 7300   | 50                 | ERO029057-14-C4VH |
|        | <b>TOTAL</b>      |                | <b>300</b>         |                   |
| 6      | Epoxy             | Macropoxy 400  | 225                | Element           |
|        | Acrylic epoxy     | Acrolon 1850   | 75                 | ERO029057-16-C4VH |
|        | <b>TOTAL</b>      |                | <b>300</b>         |                   |
| 7      | Epoxy             | Macropoxy 646  | 250                | Element           |
|        | Polyurethane      | Acrolon 7300   | 50                 | ERO029057-17-C4VH |
|        | <b>TOTAL</b>      |                | <b>300</b>         |                   |
| 8      | Epoxy             | Macropoxy 646  | 225                | Element           |
|        | Acrylic epoxy     | Acrolon 1850   | 75                 | ERO029057-19-C4VH |
|        | <b>TOTAL</b>      |                | <b>300</b>         |                   |

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## C4 ENVIRONMENT

### C4 VERY HIGH DURABILITY REGIME 2: >25 YRS

| System | Product chemistry | Coating system    | Thickness dft (um) | Certificate       |
|--------|-------------------|-------------------|--------------------|-------------------|
| 1      | Organic zinc      | Zinc Clad IV      | 60                 | Element           |
|        | Epoxy             | Macropoxy 267     | 150                | ERO027446-13-C4VH |
|        | Polyurethane      | Acrolon 7300      | 50                 |                   |
|        | <b>TOTAL</b>      |                   | <b>260</b>         |                   |
| 2      | Organic zinc      | Zinc Clad IV      | 60                 | Element           |
|        | Epoxy             | Macropoxy 646     | 150                | ERO027446-14-C4VH |
|        | Polyurethane      | Acrolon 7300      | 50                 |                   |
|        | <b>TOTAL</b>      |                   | <b>260</b>         |                   |
| 3      | Organic zinc      | Zinc Clad IV EU   | 60                 | Element           |
|        | Epoxy             | Macropoxy 267     | 150                | ERO027446-15-C4VH |
|        | Polyurethane      | Acrolon 7300      | 50                 |                   |
|        | <b>TOTAL</b>      |                   | <b>260</b>         |                   |
| 4      | Organic zinc      | Zinc Clad IV EU   | 60                 | Element           |
|        | Epoxy             | Macropoxy 646     | 150                | ERO027446-16-C4VH |
|        | Polyurethane      | Acrolon 7300      | 50                 |                   |
|        | <b>TOTAL</b>      |                   | <b>260</b>         |                   |
| 5      | Organic zinc      | Zinc Clad IV EU   | 60                 | Element           |
|        | Polyaspartic      | Envirolastic 2500 | 200                | ERO027446-17-C4VH |
|        | <b>TOTAL</b>      |                   | <b>260</b>         |                   |
| 6      | Organic zinc      | Zinc Clad IV      | 60                 | Element           |
|        | Polyaspartic      | Envirolastic 2500 | 200                | ERO027446-18-C4VH |
|        | <b>TOTAL</b>      |                   | <b>260</b>         |                   |
| 7      | Organic zinc      | Zinc Clad IV      | 60                 | Element           |
|        | Polysiloxane      | Sher-Loxane 800   | 100                | ERO027446-19-C4VH |
|        | Polysiloxane      | Sher-Loxane 800   | 100                |                   |
|        | <b>TOTAL</b>      |                   | <b>260</b>         |                   |
| 8      | Epoxy             | Fast Clad 7220    | 125                | Element           |
|        | Polyaspartic      | Envirolastic 2500 | 175                | ERO027446-24-C4VH |
|        | <b>TOTAL</b>      |                   | <b>300</b>         |                   |

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## C4 ENVIRONMENT

### C4 VERY HIGH DURABILITY REGIME 2: >25 YRS

| System | Product chemistry | Coating system    | Thickness dft (um) | Certificate       |
|--------|-------------------|-------------------|--------------------|-------------------|
| 9      | Epoxy             | Fast Clad 7220    | 110                | Element           |
|        | Epoxy             | Fast Clad 7220    | 110                | ERO027187-8-C4VH  |
|        | Acrylic epoxy     | Acrolon 1850      | 80                 |                   |
|        | <b>TOTAL</b>      |                   | <b>300</b>         |                   |
| 10     | Epoxy             | Fast Clad 7220    | 75                 | Element           |
|        | Epoxy             | Fast Clad 7240    | 145                | ERO027187-9-C4VH  |
|        | Acrylic epoxy     | Acrolon 1850      | 80                 |                   |
|        | <b>TOTAL</b>      |                   | <b>300</b>         |                   |
| 11     | Epoxy             | Fast Clad 7220    | 125                | Element           |
|        | Epoxy             | Fast Clad 7220    | 125                | ERO027187-13-C4VH |
|        | Polyurethane      | Acrolon 7300      | 50                 |                   |
|        | <b>TOTAL</b>      |                   | <b>300</b>         |                   |
| 12     | Epoxy             | Fast Clad 7220    | 75                 | Element           |
|        | Epoxy             | Fast Clad 7240    | 175                | ERO027187-14-C4VH |
|        | Polyurethane      | Acrolon 7300      | 50                 |                   |
|        | <b>TOTAL</b>      |                   | <b>300</b>         |                   |
| 13     | Epoxy             | Macropoxy 400     | 175                | Element           |
|        | Polyaspartic      | Envirolastic 2500 | 125                | ERO027187-23-C4VH |
|        | <b>TOTAL</b>      |                   | <b>300</b>         |                   |
| 14     | Organic zinc      | Zinc Clad IV      | 60                 | Element           |
|        | Epoxy             | Macropoxy 400     | 150                | ERO029057-23-C4VH |
|        | Polyurethane      | Acrolon 7300      | 50                 |                   |
|        | <b>TOTAL</b>      |                   | <b>260</b>         |                   |
| 15     | Organic zinc      | Zinc Clad IV EU   | 60                 | Element           |
|        | Epoxy             | Macropoxy 400     | 150                | ERO029057-24-C4VH |
|        | Polyurethane      | Acrolon 7300      | 50                 |                   |
|        | <b>TOTAL</b>      |                   | <b>260</b>         |                   |
| 16     | Organic zinc      | Zinc Clad IV EU   | 60                 | Element           |
|        | Epoxy             | Macropoxy 400     | 150                | ERO029057-25-C4VH |
|        | Polyurethane      | Acrolon 7300      | 50                 |                   |
|        | <b>TOTAL</b>      |                   | <b>260</b>         |                   |
| 17     | Organic zinc      | Zinc Clad IV EU   | 60                 | Element           |
|        | Epoxy             | Macropoxy 400     | 150                | ERO029057-27-C4VH |
|        | Acrylic epoxy     | Acrolon 1850      | 50                 |                   |
|        | <b>TOTAL</b>      |                   | <b>260</b>         |                   |

The durability range is not a "guarantee time". Durability is a technical consideration / planning parameter that can help the owner set up a maintenance programme. A guarantee time is a consideration that is the legal subject of clauses in the administrative part of the contract. The guarantee time is usually shorter than the durability range. There are no rules that link the two periods of time.

### Independently tested systems – third party laboratory certificates available.

Reference to corrosivity environments and durability levels refer to ISO 12944:2018 definitions.

## C5 ENVIRONMENT

C5 LOW DURABILITY: <7 YRS

| System | Product chemistry | Coating system    | Thickness dft (um) | Certificate     |
|--------|-------------------|-------------------|--------------------|-----------------|
| 1      | Epoxy             | Macropoxy 400     | 125                | Element         |
|        | Polyurethane      | Acrolon 7300      | 55                 | ERO027446-5-C5L |
|        | <b>TOTAL</b>      |                   | <b>180</b>         |                 |
| 2      | Epoxy             | Macropoxy 646     | 125                | Element         |
|        | Polyurethane      | Acrolon 7300      | 55                 | ERO027446-6-C5L |
|        | <b>TOTAL</b>      |                   | <b>180</b>         |                 |
| 3      | Polyaspartic      | Envirolastic 2500 | 180                | Element         |
|        | <b>TOTAL</b>      |                   | <b>180</b>         | ERO027446-7-C5L |

The durability range is not a "guarantee time". Durability is a technical consideration / planning parameter that can help the owner set up a maintenance programme. A guarantee time is a consideration that is the legal subject of clauses in the administrative part of the contract. The guarantee time is usually shorter than the durability range. There are no rules that link the two periods of time.

**Independently tested systems – third party laboratory certificates available.**

Reference to corrosivity environments and durability levels refer to ISO 12944:2018 definitions.

## C5 ENVIRONMENT

C5 MEDIUM DURABILITY: 7-15 YRS

| System | Product chemistry | Coating system    | Thickness dft (um) | Certificate                 |
|--------|-------------------|-------------------|--------------------|-----------------------------|
| 1      | Epoxy             | Macropoxy 400     | 190                | Element<br>ERO027446-8-C5M  |
|        | Polyurethane      | Acrolon 7300      | 50                 |                             |
|        | <b>TOTAL</b>      |                   | <b>240</b>         |                             |
| 2      | Polysiloxane      | Sher-Loxane 800   | 120                | Element<br>ERO027446-10-C5M |
|        | Polysiloxane      | Sher-Loxane 800   | 120                |                             |
|        | <b>TOTAL</b>      |                   | <b>240</b>         |                             |
| 3      | Epoxy             | Macropoxy 400     | 140                | Element<br>ERO027187-20-C5M |
|        | Polyaspartic      | Envirolastic 2500 | 100                |                             |
|        | <b>TOTAL</b>      |                   | <b>240</b>         |                             |
| 4      | Epoxy             | Macropoxy 400     | 120                | Element<br>ERO029057-7-C5M  |
|        |                   | Macropoxy 400     | 120                |                             |
|        | <b>TOTAL</b>      |                   | <b>240</b>         |                             |
| 5      | Epoxy             | Macropoxy 646     | 190                | Element<br>ERO029057-10-C5M |
|        | Polyurethane      | Acrolon 7300      | 50                 |                             |
|        | <b>TOTAL</b>      |                   | <b>240</b>         |                             |
| 6      | Epoxy             | Fast Clad 7220    | 190                | Element<br>ERO029057-12-C5M |
|        | Polyurethane      | Acrolon 7300      | 50                 |                             |
|        | <b>TOTAL</b>      |                   | <b>240</b>         |                             |
| 7      | Epoxy             | Macropoxy 400     | 160                | Element<br>ERO029057-13-C5M |
|        | Acrylic epoxy     | Acrolon 1850      | 80                 |                             |
|        | <b>TOTAL</b>      |                   | <b>240</b>         |                             |

The durability range is not a "guarantee time". Durability is a technical consideration / planning parameter that can help the owner set up a maintenance programme. A guarantee time is a consideration that is the legal subject of clauses in the administrative part of the contract. The guarantee time is usually shorter than the durability range. There are no rules that link the two periods of time.

**Independently tested systems – third party laboratory certificates available.**

Reference to corrosivity environments and durability levels refer to ISO 12944:2018 definitions.

## C5 ENVIRONMENT

### C5 HIGH DURABILITY REGIME 1: 15–25 YEARS

| System | Product chemistry | Coating system | Thickness dft (um) | Certificate      |
|--------|-------------------|----------------|--------------------|------------------|
| 1      | Epoxy             | Macropoxy 400  | 125                | Element          |
|        | Epoxy             | Macropoxy 400  | 125                | ERO027446-11-C5H |
|        | Polyurethane      | Acrolon 7300   | 50                 |                  |
|        | <b>TOTAL</b>      |                | <b>300</b>         |                  |
| 2      | Epoxy             | Macropoxy 646  | 125                | Element          |
|        | Epoxy             | Macropoxy 646  | 125                | ERO027446-12-C5H |
|        | Polyurethane      | Acrolon 7300   | 50                 |                  |
|        | <b>TOTAL</b>      |                | <b>300</b>         |                  |
| 3      | Epoxy             | Macropoxy 400  | 150                | Element          |
|        | Epoxy             | Macropoxy 400  | 150                | ERO029057-20-C5H |
|        | <b>TOTAL</b>      |                | <b>300</b>         |                  |
| 4      | Epoxy             | Macropoxy 400  | 300                | Element          |
|        | <b>TOTAL</b>      |                | <b>300</b>         | ERO029057-21-C5H |
| 5      | Epoxy             | Macropoxy 400  | 250                | Element          |
|        | Polyurethane      | Acrolon 7300   | 50                 | ERO029057-14-C5H |
|        | <b>TOTAL</b>      |                | <b>300</b>         |                  |
| 6      | Epoxy             | Macropoxy 400  | 225                | Element          |
|        | Acrylic epoxy     | Acrolon 1850   | 75                 | ERO029057-16-C5H |
|        | <b>TOTAL</b>      |                | <b>300</b>         |                  |
| 7      | Epoxy             | Macropoxy 646  | 250                | Element          |
|        | Polyurethane      | Acrolon 7300   | 50                 | ERO029057-17-C5H |
|        | <b>TOTAL</b>      |                | <b>300</b>         |                  |
| 8      | Epoxy             | Macropoxy 646  | 225                | Element          |
|        | Acrylic epoxy     | Acrolon 1850   | 75                 | ERO029057-19-C5H |
|        | <b>TOTAL</b>      |                | <b>300</b>         |                  |

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## Independently tested systems – third party laboratory certificates available.

Reference to corrosivity environments and durability levels refer to ISO 12944:2018 definitions.

## C5 ENVIRONMENT

### C5 HIGH DURABILITY REGIME 2: 15–25 YEARS

| System | Product chemistry | Coating system    | Thickness dft (um) | Certificate                 |
|--------|-------------------|-------------------|--------------------|-----------------------------|
| 1      | Organic zinc      | Zinc Clad IV      | 60                 | Element<br>ERO027446-13-C5H |
|        | Epoxy             | Macropoxy 267     | 150                |                             |
|        | Polyurethane      | Acrolon 7300      | 50                 |                             |
|        | <b>TOTAL</b>      |                   | <b>260</b>         |                             |
| 2      | Organic zinc      | Zinc Clad IV      | 60                 | Element<br>ERO027446-14-C5H |
|        | Epoxy             | Macropoxy 646     | 150                |                             |
|        | Polyurethane      | Acrolon 7300      | 50                 |                             |
|        | <b>TOTAL</b>      |                   | <b>260</b>         |                             |
| 3      | Organic zinc      | Zinc Clad IV EU   | 60                 | Element<br>ERO027446-15-C5H |
|        | Epoxy             | Macropoxy 267     | 150                |                             |
|        | Polyurethane      | Acrolon 7300      | 50                 |                             |
|        | <b>TOTAL</b>      |                   | <b>260</b>         |                             |
| 4      | Organic zinc      | Zinc Clad IV EU   | 60                 | Element<br>ERO027446-16-C5H |
|        | Epoxy             | Macropoxy 646     | 150                |                             |
|        | Polyurethane      | Acrolon 7300      | 50                 |                             |
|        | <b>TOTAL</b>      |                   | <b>260</b>         |                             |
| 5      | Organic zinc      | Zinc Clad IV EU   | 60                 | Element<br>ERO027446-17-C5H |
|        | Polyaspartic      | Envirolastic 2500 | 200                |                             |
|        | <b>TOTAL</b>      |                   | <b>260</b>         |                             |
| 6      | Organic zinc      | Zinc Clad IV      | 60                 | Element<br>ERO027446-18-C5H |
|        | Polyaspartic      | Envirolastic 2500 | 200                |                             |
|        | <b>TOTAL</b>      |                   | <b>260</b>         |                             |
| 7      | Organic zinc      | Zinc Clad IV      | 60                 | Element<br>ERO027446-19-C5H |
|        | Polysiloxane      | Sher-Loxane 800   | 100                |                             |
|        | Polysiloxane      | Sher-Loxane 800   | 100                |                             |
|        | <b>TOTAL</b>      |                   | <b>260</b>         |                             |
| 8      | Epoxy             | Fast Clad 7220    | 125                | Element<br>ERO027446-24-C5H |
|        | Polyaspartic      | Envirolastic 2500 | 175                |                             |
|        | <b>TOTAL</b>      |                   | <b>300</b>         |                             |
| 9      | Epoxy             | Fast Clad 7220    | 110                | Element<br>ERO027187-8-C5H  |
|        | Epoxy             | Fast Clad 7220    | 110                |                             |
|        | Acrylic epoxy     | Acrolon 1850      | 80                 |                             |
|        | <b>TOTAL</b>      |                   | <b>300</b>         |                             |

The durability range is not a "guarantee time". Durability is a technical consideration / planning parameter that can help the owner set up a maintenance programme. A guarantee time is a consideration that is the legal subject of clauses in the administrative part of the contract. The guarantee time is usually shorter than the durability range. There are no rules that link the two periods of time.



## Independently tested systems – third party laboratory certificates available.

Reference to corrosivity environments and durability levels refer to ISO 12944:2018 definitions.

## C5 ENVIRONMENT

### C5 HIGH DURABILITY REGIME 2: 15–25 YEARS

| System       | Product chemistry | Coating system    | Thickness dft (um) | Certificate      |
|--------------|-------------------|-------------------|--------------------|------------------|
| 10           | Epoxy             | Fast Clad 7220    | 75                 | Element          |
|              | Epoxy             | Fast Clad 7240    | 145                | ERO027187-9-C5H  |
|              | Acrylic epoxy     | Acrolon 1850      | 80                 |                  |
|              | <b>TOTAL</b>      |                   | <b>300</b>         |                  |
| 11           | Epoxy             | Fast Clad 7220    | 125                | Element          |
|              | Epoxy             | Fast Clad 7220    | 125                | ERO027187-13-C5H |
|              | Polyurethane      | Acrolon 7300      | 50                 |                  |
|              | <b>TOTAL</b>      |                   | <b>300</b>         |                  |
| 12           | Epoxy             | Fast Clad 7220    | 75                 | Element          |
|              | Epoxy             | Fast Clad 7240    | 175                | ERO027187-14-C5H |
|              | Polyurethane      | Acrolon 7300      | 50                 |                  |
|              | <b>TOTAL</b>      |                   | <b>300</b>         |                  |
| 13           | Epoxy             | Macropoxy 400     | 175                | Element          |
|              | Polyaspartic      | Envirolastic 2500 | 125                | ERO027187-23-C5H |
|              | <b>TOTAL</b>      |                   | <b>300</b>         |                  |
|              | 14                | Organic zinc      | Zinc Clad IV       | 60               |
| Epoxy        |                   | Macropoxy 400     | 150                | ERO029057-23-C5H |
| Polyurethane |                   | Acrolon 7300      | 50                 |                  |
| <b>TOTAL</b> |                   |                   | <b>260</b>         |                  |
| 15           | Organic zinc      | Zinc Clad IV EU   | 60                 | Element          |
|              | Epoxy             | Macropoxy 400     | 150                | ERO029057-24-C5H |
|              | Polyurethane      | Acrolon 7300      | 50                 |                  |
|              | <b>TOTAL</b>      |                   | <b>260</b>         |                  |
| 16           | Organic zinc      | Zinc Clad IV EU   | 60                 | Element          |
|              | Epoxy             | Macropoxy 400     | 150                | ERO029057-25-C5H |
|              | Polyurethane      | Acrolon 7300      | 50                 |                  |
|              | <b>TOTAL</b>      |                   | <b>260</b>         |                  |
| 17           | Organic zinc      | Zinc Clad IV EU   | 60                 | Element          |
|              | Epoxy             | Macropoxy 400     | 150                | ERO029057-27-C5H |
|              | Acrylic epoxy     | Acrolon 1850      | 50                 |                  |
|              | <b>TOTAL</b>      |                   | <b>260</b>         |                  |

The durability range is not a "guarantee time". Durability is a technical consideration / planning parameter that can help the owner set up a maintenance programme. A guarantee time is a consideration that is the legal subject of clauses in the administrative part of the contract. The guarantee time is usually shorter than the durability range. There are no rules that link the two periods of time.

**Independently tested systems – third party laboratory certificates available.**

Reference to corrosivity environments and durability levels refer to ISO 12944:2018 definitions.

## C5 ENVIRONMENT

### C5 VERY HIGH DURABILITY REGIME 2: >25 YEARS

| System | Product chemistry | Coating system    | Thickness dft (um) | Certificate       |
|--------|-------------------|-------------------|--------------------|-------------------|
| 1      | Organic zinc      | Zinc Clad 4700    | 60                 | Element           |
|        | Epoxy             | Macropoxy 400     | 210                | ERO029057-31-C5VH |
|        | Polyurethane      | Acrolon 7300      | 50                 |                   |
|        | <b>TOTAL</b>      |                   | <b>320</b>         |                   |
| 2      | Organic zinc      | Zinc Clad IV      | 60                 | Element           |
|        | Epoxy             | Macropoxy 400     | 210                | ERO029057-29-C5VH |
|        | Polyurethane      | Acrolon 7300      | 50                 |                   |
|        | <b>TOTAL</b>      |                   | <b>320</b>         |                   |
| 3      | Organic zinc      | Zinc Clad IV      | 60                 | Element           |
|        | Epoxy             | Macropoxy 400     | 210                | ERO029057-33-C5VH |
|        | Acrylic epoxy     | Acrolon 1850      | 50                 |                   |
|        | <b>TOTAL</b>      |                   | <b>320</b>         |                   |
| 4      | Organic zinc      | Zinc Clad IV      | 60                 | Element           |
|        | Polyaspartic      | Envirolastic 2500 | 200                | ERO029057-26-C5VH |
|        | <b>TOTAL</b>      |                   | <b>260</b>         |                   |
| 5      | Organic zinc      | Zinc Clad IV      | 60                 | Element           |
|        | Polysiloxane      | Sher-Loxane 800   | 130                | ERO029057-27-C5VH |
|        | Polysiloxane      | Sher-Loxane 800   | 130                |                   |
|        | <b>TOTAL</b>      |                   | <b>320</b>         |                   |

The durability range is not a "guarantee time". Durability is a technical consideration / planning parameter that can help the owner set up a maintenance programme. A guarantee time is a consideration that is the legal subject of clauses in the administrative part of the contract. The guarantee time is usually shorter than the durability range. There are no rules that link the two periods of time.

## Independently tested systems – third party laboratory certificates available.

Reference to corrosivity environments and durability levels refer to ISO 12944:2018 definitions.

## CX ENVIRONMENT

TESTED IN ACCORDANCE WITH ISO 12944:2018

| System | Product chemistry | Coating system  | Thickness dft (um) | Certificate     |
|--------|-------------------|-----------------|--------------------|-----------------|
| 1      | Organic zinc      | Zinc Clad IV    | 60                 | Element         |
|        | Epoxy             | Macropoxy 267   | 160                | ERO027446-29-CX |
|        | Polyurethane      | Acrolon 7300    | 60                 |                 |
|        | <b>TOTAL</b>      |                 | <b>280</b>         |                 |
| 2      | Organic zinc      | Zinc Clad IV    | 60                 | Element         |
|        | Epoxy             | Macropoxy 646   | 170                | ERO027446-30-CX |
|        | Polyurethane      | Acrolon 7300    | 50                 |                 |
|        | <b>TOTAL</b>      |                 | <b>280</b>         |                 |
| 3      | Organic zinc      | Zinc Clad IV EU | 60                 | Element         |
|        | Epoxy             | Macropoxy 267   | 170                | ERO027446-31-CX |
|        | Polyurethane      | Acrolon 7300    | 50                 |                 |
|        | <b>TOTAL</b>      |                 | <b>280</b>         |                 |
| 4      | Organic zinc      | Zinc Clad IV EU | 60                 | Element         |
|        | Epoxy             | Macropoxy 646   | 170                | ERO027446-32-CX |
|        | Polyurethane      | Acrolon 7300    | 50                 |                 |
|        | <b>TOTAL</b>      |                 | <b>280</b>         |                 |

The durability range is not a "guarantee time". Durability is a technical consideration / planning parameter that can help the owner set up a maintenance programme. A guarantee time is a consideration that is the legal subject of clauses in the administrative part of the contract. The guarantee time is usually shorter than the durability range. There are no rules that link the two periods of time.

**Independently tested systems – third party laboratory certificates available.**

Reference to corrosivity environments and durability levels refer to ISO 12944:2018 definitions.

## SYSTEMS SUITABLE FOR CX ENVIRONMENT

TESTED IN ACCORDANCE WITH NORSOK M-501 REV 6 (ISO 12944:2018 PART 9)

| System | Product chemistry | Coating system  | Thickness dft (um) | Certificate  |
|--------|-------------------|-----------------|--------------------|--------------|
| 1      | Inorganic zinc    | Zinc Clad II EU | 60                 | Element      |
|        | Epoxy             | Macropoxy 267   | 160                | ERO024159-72 |
|        | Polyurethane      | Acrolon 7300    | 60                 |              |
|        | <b>TOTAL</b>      |                 | <b>280</b>         |              |
| 2      | Inorganic zinc    | Zinc Clad II EU | 60                 | Element      |
|        | Epoxy             | Macropoxy 267   | 160                | ERO024159-73 |
|        | Acrylic epoxy     | Acrolon 1850    | 60                 |              |
|        | <b>TOTAL</b>      |                 | <b>280</b>         |              |
| 3      | Inorganic zinc    | Zinc Clad II EU | 60                 | Element      |
|        | Epoxy             | Macropoxy 646   | 160                | ERO024159-74 |
|        | Polyurethane      | Acrolon 7300    | 60                 |              |
|        | <b>TOTAL</b>      |                 | <b>280</b>         |              |
| 4      | Inorganic zinc    | Zinc Clad II EU | 60                 | Element      |
|        | Epoxy             | Macropoxy 646   | 160                | ERO024159-75 |
|        | Acrylic epoxy     | Acrolon 1850    | 60                 |              |
|        | <b>TOTAL</b>      |                 | <b>280</b>         |              |
| 5      | Inorganic zinc    | Zinc Clad II EU | 75                 | Element      |
|        | Epoxy             | Macropoxy 267   | 145                | ERO024159-79 |
|        | Polyurethane      | Acrolon 7300    | 60                 |              |
|        | <b>TOTAL</b>      |                 | <b>280</b>         |              |
| 6      | Inorganic zinc    | Zinc Clad II EU | 75                 | Element      |
|        | Epoxy             | Macropoxy 646   | 145                | ERO024159-80 |
|        | Polyurethane      | Acrolon 7300    | 60                 |              |
|        | <b>TOTAL</b>      |                 | <b>280</b>         |              |
| 7      | Inorganic zinc    | Zinc Clad II EU | 75                 | Element      |
|        | Epoxy             | Macropoxy 646   | 145                | ERO024159-81 |
|        | Acrylic epoxy     | Acrolon 1850    | 60                 |              |
|        | <b>TOTAL</b>      |                 | <b>280</b>         |              |

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**Independently tested systems – third party laboratory certificates available.**

Reference to corrosivity environments and durability levels refer to ISO 12944:2018 definitions.

## SYSTEMS SUITABLE FOR CX ENVIRONMENT

TESTED IN ACCORDANCE WITH NORSOK M-501 REV 6 (ISO 12944:2018 PART 9)

| System | Product chemistry | Coating system  | Thickness dft (um) | Certificate             |
|--------|-------------------|-----------------|--------------------|-------------------------|
| 9      | Organic zinc      | Zinc Clad IV EU | 75                 | Element<br>ERO024159-90 |
|        | Epoxy             | Macropoxy 267   | 145                |                         |
|        | Polyurethane      | Acrolon 7300    | 60                 |                         |
|        | <b>TOTAL</b>      |                 | <b>280</b>         |                         |
| 10     | Organic zinc      | Zinc Clad IV EU | 60                 | Element<br>ERO024159-96 |
|        | Epoxy             | Macropoxy 267   | 160                |                         |
|        | Polyurethane      | Acrolon 7300    | 60                 |                         |
|        | <b>TOTAL</b>      |                 | <b>280</b>         |                         |
| 11     | Organic zinc      | Zinc Clad IV EU | 60                 | Element<br>ERO024159-97 |
|        | Epoxy             | Macropoxy 267   | 160                |                         |
|        | Acrylic epoxy     | Acrolon 1850    | 60                 |                         |
|        | <b>TOTAL</b>      |                 | <b>280</b>         |                         |
| 12     | Organic zinc      | Zinc Clad IV EU | 60                 | Element<br>ERO024159-98 |
|        | Epoxy             | Macropoxy 646   | 160                |                         |
|        | Polyurethane      | Acrolon 7300    | 60                 |                         |
|        | <b>TOTAL</b>      |                 | <b>280</b>         |                         |
| 13     | Organic zinc      | Zinc Clad IV EU | 60                 | Element<br>ERO024159-99 |
|        | Epoxy             | Macropoxy 646   | 160                |                         |
|        | Acrylic epoxy     | Acrolon 1850    | 60                 |                         |
|        | <b>TOTAL</b>      |                 | <b>280</b>         |                         |
| 14     | Inorganic zinc    | Zinc Clad II EU | 60                 | Element<br>ERO024159-76 |
|        | Epoxy             | Macropoxy 267   | 120                |                         |
|        | Polysiloxane      | Sher-Loxane 800 | 100                |                         |
|        | <b>TOTAL</b>      |                 | <b>280</b>         |                         |
| 15     | Inorganic zinc    | Zinc Clad II EU | 60                 | Element<br>ERO024159-77 |
|        | Epoxy             | Macropoxy 646   | 120                |                         |
|        | Polysiloxane      | Sher-Loxane 800 | 100                |                         |
|        | <b>TOTAL</b>      |                 | <b>280</b>         |                         |
| 16     | Inorganic zinc    | Zinc Clad II EU | 60                 | Element<br>ERO024159-82 |
|        | Epoxy             | Macropoxy 267   | 105                |                         |
|        | Polysiloxane      | Sher-Loxane 800 | 100                |                         |
|        | <b>TOTAL</b>      |                 | <b>280</b>         |                         |

The durability range is not a "guarantee time". Durability is a technical consideration / planning parameter that can help the owner set up a maintenance programme. A guarantee time is a consideration that is the legal subject of clauses in the administrative part of the contract. The guarantee time is usually shorter than the durability range. There are no rules that link the two periods of time.

### Independently tested systems – third party laboratory certificates available.

Reference to corrosivity environments and durability levels refer to ISO 12944:2018 definitions.

## SYSTEMS SUITABLE FOR CX ENVIRONMENT

TESTED IN ACCORDANCE WITH NORSOK M-501 REV 6 (ISO 12944:2018 PART 9)

| System | Product chemistry | Coating system  | Thickness dft (um) | Certificate   |
|--------|-------------------|-----------------|--------------------|---------------|
| 17     | Inorganic zinc    | Zinc Clad II EU | 60                 | Element       |
|        | Epoxy             | Macropoxy 646   | 105                | ERO024159-83  |
|        | Polysiloxane      | Sher-Loxane 800 | 100                |               |
|        | <b>TOTAL</b>      |                 | <b>280</b>         |               |
| 18     | Organic zinc      | Zinc Clad IV EU | 60                 | Element       |
|        | Epoxy             | Macropoxy 646   | 120                | ERO024159-100 |
|        | Polysiloxane      | Sher-Loxane 800 | 100                |               |
|        | <b>TOTAL</b>      |                 | <b>280</b>         |               |
| 19     | Organic zinc      | Zinc Clad IV EU | 60                 | Element       |
|        | Epoxy             | Macropoxy 267   | 120                | ERO024159-101 |
|        | Polysiloxane      | Sher-Loxane 800 | 100                |               |
|        | <b>TOTAL</b>      |                 | <b>280</b>         |               |

The durability range is not a "guarantee time". Durability is a technical consideration / planning parameter that can help the owner set up a maintenance programme. A guarantee time is a consideration that is the legal subject of clauses in the administrative part of the contract. The guarantee time is usually shorter than the durability range. There are no rules that link the two periods of time.

## Independently tested systems – third party laboratory certificates available.

Reference to corrosivity environments and durability levels refer to ISO 12944:2018 definitions.

## IM2 ENVIRONMENT

| System | Product chemistry | Coating system | Thickness dft (um) | Certificate           |
|--------|-------------------|----------------|--------------------|-----------------------|
| 1      | Epoxy             | Fast Clad ER   | 500                | Element               |
|        |                   | <b>TOTAL</b>   | <b>500</b>         | ERO024159-70-Im2-2018 |
| 2      | Epoxy             | Macropoxy 646  | 250                | Element               |
|        | Epoxy             | Macropoxy 646  | 250                | ERO024159-65-Im2-2018 |
|        |                   | <b>TOTAL</b>   | <b>500</b>         |                       |
| 3      | Epoxy             | Macropoxy M922 | 250                | Element               |
|        | Epoxy             | Macropoxy M922 | 250                | ERO024159-66-Im2-2018 |
|        |                   | <b>TOTAL</b>   | <b>500</b>         |                       |
| 4      | Epoxy             | Macropoxy M922 | 500                | Element               |
|        |                   | <b>TOTAL</b>   | <b>500</b>         | ERO024159-68-Im2-2018 |

The durability range is not a "guarantee time". Durability is a technical consideration / planning parameter that can help the owner set up a maintenance programme. A guarantee time is a consideration that is the legal subject of clauses in the administrative part of the contract. The guarantee time is usually shorter than the durability range. There are no rules that link the two periods of time.

**Independently tested systems – third party laboratory certificates available.**

Reference to corrosivity environments and durability levels refer to ISO 12944:2018 definitions.

## IM4 ENVIRONMENT

| System | Product chemistry | Coating system  | Thickness dft (um) | Certificate      |
|--------|-------------------|-----------------|--------------------|------------------|
| 2      | Organic zinc      | Zinc Clad IV EU | 60                 | Element          |
|        | Epoxy             | Macropoxy M922  | 340                | ERO027446-34-Im4 |
|        | Polyurethane      | Acrolon 7300    | 50                 |                  |
|        | <b>TOTAL</b>      |                 | <b>450</b>         |                  |

The durability range is not a "guarantee time". Durability is a technical consideration / planning parameter that can help the owner set up a maintenance programme. A guarantee time is a consideration that is the legal subject of clauses in the administrative part of the contract. The guarantee time is usually shorter than the durability range. There are no rules that link the two periods of time.



**Independently tested systems – third party laboratory certificates available.**

Reference to corrosivity environments and durability levels refer to ISO 12944:2018 definitions.

## SYSTEMS SUITABLE FOR IM2 ENVIRONMENT

TESTED IN ACCORDANCE WITH NORSOK M-501 REV 6 7B

| System | Product chemistry | Coating system | Thickness dft (um) | Certificate           |
|--------|-------------------|----------------|--------------------|-----------------------|
| 1      | Epoxy             | Fast Clad ER   | 500                | Element               |
|        |                   | <b>TOTAL</b>   | <b>500</b>         | ERO024159-70-Im2-2018 |
| 2      | Epoxy             | Macropoxy 646  | 250                | Element               |
|        | Epoxy             | Macropoxy 646  | 250                | ERO024159-65-Im2-2018 |
|        | <b>TOTAL</b>      | <b>500</b>     |                    |                       |
| 3      | Epoxy             | Macropoxy M922 | 250                | Element               |
|        | Epoxy             | Macropoxy M922 | 250                | ERO024159-66-Im2-2018 |
|        | <b>TOTAL</b>      | <b>500</b>     |                    |                       |
| 4      | Epoxy             | Macropoxy M922 | 500                | Element               |
|        |                   | <b>TOTAL</b>   | <b>500</b>         | ERO024159-68-Im2-2018 |

The durability range is not a "guarantee time". Durability is a technical consideration / planning parameter that can help the owner set up a maintenance programme. A guarantee time is a consideration that is the legal subject of clauses in the administrative part of the contract. The guarantee time is usually shorter than the durability range. There are no rules that link the two periods of time.

# ISO 12944

SYSTEMS GUIDE 2020 EDITION  
COMPLIANT WITH ISO 12944-5:2018 INDEPENDENTLY TESTED

## THE SHERWIN-WILLIAMS DIFFERENCE

Sherwin-Williams Protective & Marine delivers world-class industry subject matter expertise, unparalleled technical and specification service, and unmatched regional commercial team support to our customers around the globe. Our broad portfolio of high-performance coatings and systems that excel at combating corrosion helps customers achieve smarter, time-tested asset protection. We serve a wide array of markets across our rapidly growing international distribution footprint, including oil and gas, water and wastewater, bridge and highway, steel fabrication, flooring, food and beverage, rail and power, marine and passive fire protection.

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