



# SHERCOR™ CABLE SYSTEM

## CORROSION PROTECTION FOR BRIDGE CABLES

Revised 07/2025 Issue 2

### PRODUCT DESCRIPTION

The SherCor™ Cable System consists of 3 coating materials, and a sealant. Suitable for coating or sealing of bridge cables and steel constructions exposed to vibration as well as deformation.

The system has low solvent content according to Protective Coatings Directive of German Paint Industry Association (VdL-RL 04).

- Very good corrosion protection characteristics
- Flexible, even at low temperatures
- High weather and colour resistance

#### SherCor™ Cable Primer Plus

A 2-pack epoxy primer. It contains micaceous iron oxide, is versatile overcoatable, is of high chemical and mechanical resistance and adheres very well to steel and galvanized steel.

#### SherCor™ Cable TOP-1

A 2-pack polyurethane intermediate coat. It contains micaceous iron oxide and is of high elasticity, impact strength, wear resistance and very good corrosion protection. It is suitable for high build application and cures very fast.

#### SherCor™ Cable TOP-2

A 2-pack polyurethane topcoat. It is flexible, lightfast and weather resistant.

#### Sikaflex® PRO-3 Purform

A flexible, solvent-free 1-pack sealant based on polyurethane. Because of its high flexibility and expansion ability it is especially suitable for filling joints and gaps exposed to vibration (e.g. anchoring of bridge cables).

### RECOMMENDED USE

Can be used as a flexible and high build corrosion protection for bridge ropes and cables of steel and galvanized steel.

### PRODUCT TECHNICAL DATA

**Volume Solids:** SherCor™ Cable Primer Plus: 68 ± 2%  
SherCor™ Cable TOP-1: 85 ± 2%  
SherCor™ Cable TOP-2: 64 ± 2%  
Sikaflex® PRO-3 Purform: 100 ± 2%

**Weight Solids:** SherCor™ Cable Primer Plus: 81 ± 2%  
SherCor™ Cable TOP-1: 92 ± 2%  
SherCor™ Cable TOP-2: 78 ± 2%  
Sikaflex® PRO-3 Purform: 100 ± 2%

**VOC:** SherCor™ Cable Primer Plus:  
285 g/l determined practically in accordance with Protective Coatings Directive of German Paint Industry Association (VdL-RL 04).  
326 g/l calculated from formulation to satisfy EC Solvent Emissions Directive.  
217 g/kg calculated from formulation to satisfy EC Solvent Emissions Directive (UK).  
SherCor™ Cable TOP-1:  
120 g/l determined practically in accordance with Protective Coatings Directive of German Paint Industry Association (VdL-RL 04).  
90 g/l calculated from formulation to satisfy EC Solvent Emissions Directive.  
60 g/kg calculated from formulation to satisfy EC Solvent Emissions Directive (UK).

#### SherCor™ Cable TOP-2:

308 g/l determined practically in accordance with Protective Coatings Directive of German Paint Industry Association (VdL-RL 04).  
298 g/l calculated from formulation to satisfy EC Solvent Emissions Directive.  
213 g/kg calculated from formulation to satisfy EC Solvent Emissions Directive (UK).

#### Colours:

SherCor™ Cable Primer Plus: DB 702 and DB 703  
SherCor™ Cable TOP-1: DB 601 and grey-white  
SherCor™ Cable TOP-2: RAL- and DB-colour shades upon request  
Sikaflex® PRO-3 Purform: grey

#### Flash Point:

SherCor™ Cable Primer Plus: Base: 23°C, Hardener: 48°C  
SherCor™ Cable TOP-1: Base: 40°C, Hardener: > 200°C  
SherCor™ Cable TOP-2: Base: 32°C, Hardener: 38°C  
Sikaflex® PRO-3 Purform: > 101°C,



# SHERCOR™ CABLE SYSTEM

## CORROSION PROTECTION FOR BRIDGE CABLES

Revised 07/2025 Issue 2

### PRODUCT TECHNICAL DATA (cont.)

**Cleaner/Thinner:** Thinner EG (for cleaning).  
Thinner EG for thinning with max. 5% to adapt the viscosity.  
Thinning will affect VOC compliance, sag tolerance and dry film thicknesses.  
**Note:** Do not thin Sikaflex® PRO-3 Purform

**Pack Size:** Two component materials supplied in separate containers to be mixed prior to use:  
**SherCor™ Cable Primer Plus:** 15 kg (10 litre) unit when mixed  
**SherCor™ Cable TOP-1:** 3 kg (2 litre) unit when mixed  
**SherCor™ Cable TOP-2:** 3 kg (2.1 litre) unit when mixed  
**Sikaflex® PRO-3 Purform:** 12 x 300 ml cartridge, 20 x 600 ml cylindrical foil pack

Volume will vary with colours and density.

**Mixing Ratio:** By weight  
**SherCor™ Cable Primer Plus:** 90 parts base to 10 parts hardener  
**SherCor™ Cable TOP-1:** 85 parts base to 15 parts hardener  
**SherCor™ Cable TOP-2:** 83 parts base to 17 parts hardener  
**Sikaflex® PRO-3 Purform:** 1-component

**Density:** **SherCor™ Cable Primer Plus:** 1.5 kg/l  
**SherCor™ Cable TOP-1:** 1.5 kg/l  
**SherCor™ Cable TOP-2:** 1.4 kg/l  
**Sikaflex® PRO-3 Purform:** 1.3 kg/l  
(may vary with colours)

**Shelf Life:** **SherCor™ Cable Primer Plus:** 2 years  
**SherCor™ Cable TOP-1:** 1 year  
**SherCor™ Cable TOP-2:** 2 years  
**Sikaflex® PRO-3 Purform:** 15 months  
from date of manufacture, stored in originally sealed containers in a cool and dry environment.

#### Recommended Application Methods:

Brush

#### Typical Thickness:

##### Recommended Spreading Rate Per Coat

|                          | Typical                                            |                                                   |                                                    |
|--------------------------|----------------------------------------------------|---------------------------------------------------|----------------------------------------------------|
|                          | SherCor Cable Primer Plus                          | SherCor Cable TOP-1                               | SherCor Cable TOP-2                                |
| Dry                      | 50 µm                                              | 150 µm                                            | 60 µm                                              |
| Wet                      | 74 µm                                              | 176 µm                                            | 94 µm                                              |
| Theoretical Consumption* | 0.110 kg/m <sup>2</sup><br>0.074 l/m <sup>2</sup>  | 0.265 kg/m <sup>2</sup><br>0.176 l/m <sup>2</sup> | 0.131 kg/m <sup>2</sup><br>0.094 l/m <sup>2</sup>  |
| Theoretical Coverage*    | 9.07 m <sup>2</sup> /kg<br>13.60 m <sup>2</sup> /l | 3.78 m <sup>2</sup> /kg<br>5.67 m <sup>2</sup> /l | 7.62 m <sup>2</sup> /kg<br>10.67 m <sup>2</sup> /l |

\* This figure makes no allowance for surface profile, uneven application, overspray or losses in containers and equipment.

Film thickness will vary depending on actual use and specification.

#### Pot Life:

|                                             |             |
|---------------------------------------------|-------------|
| <b>SherCor™ Cable Primer Plus</b> at + 20°C | 8 hours     |
| <b>SherCor™ Cable TOP-1</b> at + 20°C       | 1.5 hours   |
| <b>SherCor™ Cable TOP-2</b> at + 20°C       | 2 hours     |
| <b>Sikaflex® PRO-3 Purform</b> at + 20 °C   | 1-component |

Pot life is dependent on temperature and volume.



# SHERCOR™ CABLE SYSTEM

## CORROSION PROTECTION FOR BRIDGE CABLES

Revised 07/2025 Issue 2

### AVERAGE DRYING TIMES

#### SherCor™ Cable Primer Plus for 50 µm Dry Film Thickness:

|                                    | + 10°C   | + 20°C   | + 30°C   |
|------------------------------------|----------|----------|----------|
| Dry to handle<br>(Drying Stage 6*) | 8 hours  | 4 hours  | 2 hours  |
| To Recoat                          | 24 hours | 24 hours | 24 hours |

#### SherCor™ Cable TOP-1 for 150 µm Dry Film Thickness:

|                                    | + 10°C   | + 20°C   | + 30°C   |
|------------------------------------|----------|----------|----------|
| Dry to handle<br>(Drying Stage 6*) | 20 hours | 20 hours | 15 hours |
| To Recoat                          | 24 hours | 24 hours | 24 hours |

#### SherCor™ Cable TOP-2 for 60 µm Dry Film Thickness:

|                                    | + 10°C   | + 20°C  | + 30°C  |
|------------------------------------|----------|---------|---------|
| Dry to handle<br>(Drying Stage 6*) | 15 hours | 6 hours | 4 hours |

\*ISO 9117

Maximum recoat time is 1 year. Prior to further applications all contamination must be removed. In the case of extended recoating times consult Sherwin Williams customer service.

Note: When overcoating SherCor™ Cable TOP-2 the existing surface must be mechanically prepared.

Final cure: 1-2 weeks, depending on film thickness and temperature.

These figures are given as a guide only. Factors such as air movement, film thickness and humidity must also be considered.

Sikaflex® POR-3 Purform is applied directly onto the SherCor™ Cable Primer Plus.

### APPROVALS & ENDORSEMENTS

Approved according to the German standard "ZTV-ING, Part 4, Chapter 5, Corrosion Protection of Ropes and Cables" and "TL/TP KOR-VVS".

### SURFACE PREPARATION

Ensure surfaces to be coated are clean, dry and free from all surface contamination such as oil, grease, dirt and corrosion products to achieve satisfactory adhesion.

**Steel substrates** shall be blast-cleaned to Sa 2½ according to ISO 8501-1 (ISO 12944-4).

**Hot-dip galvanized surfaces** shall be prepared by sweep blasting according to ISO 12944-4 with a non-ferrous blasting abrasive.

### MIXING

#### Coating materials:

Stir Component A very thoroughly using a mechanical paint mixer (start slowly, then increase up to approx. 300 rpm). Add component B carefully and mix both components very thoroughly (including sides and bottom of the container). Mix for at least 3 minutes until a homogeneous mixture is achieved. We recommend to fill the mixed material into a clean container and mix again shortly to avoid incorrect mixing.

During mixing and handling of the materials always wear protective goggles, suitable gloves and other protective clothing.

### APPLICATION CONDITIONS

Substrate temperature shall be above + 5°C and at least 3°C above the dew point.

Material temperature shall be above + 5°C.

Relative air humidity shall be below 85%.

### APPLICATION EQUIPMENT

#### Coating materials: Brush

- According to ZTV-KOR 'Corrosion Protection of Ropes and Cables' brushing is the preferred application method.
- Where light and intense colour shades are applied, a second topcoat might become necessary.

#### Sikaflex® POR-3 Purform :

- The application technique depends on the design features of the project.
- Steel and galvanized steel have to be primed with SherCor™ Cable Primer Plus.



# SHERCOR™ CABLE SYSTEM

## CORROSION PROTECTION FOR BRIDGE CABLES

Revised 07/2025 Issue 2

### RECOMMENDED SYSTEMS

According to German ZTV-ING, Part 4, Chapter 5 "Corrosion Protection of Bridge Ropes"

**Steel:**

2 x 50 µm SherCor™ Cable Primer Plus

2 - 3 x 150 µm SherCor™ Cable TOP-1

1 x 60 µm SherCor™ Cable TOP-2

**Galvanized steel:**

1 x 50 µm SherCor™ Cable Primer Plus

2 - 3 x 150 µm SherCor™ Cable TOP-1

1 x 60 µm SherCor™ Cable TOP-2

### ADDITIONAL NOTES

Drying times, curing times and pot life should be considered as a guide only.

**Chemical resistance:**

Resistant to weathering, water, de-icing salts, oils and grease.

**Shore hardness A (according to ISO 868):**

Sikaflex® POR-3 Purform: 35 - 45

Numerical values quoted for physical data may vary slightly from batch to batch.

### HEALTH & SAFETY

Consult Product Health and Safety Data Sheet for information on safe storage, handling and application of this product.

### WARRANTY

Whilst all statements made about our products (whether in this data sheet or otherwise) are correct and accurate to the best of our knowledge, we have no control over the quality or the condition of the substrate, the application conditions or the many other factors affecting your use and application of our product.

The appropriateness of the product under the actual conditions of application or intended use must be determined exclusively by you. The content of this document, and of any oral or written statements already made or to be made in relation to the subject matter of this document, including any suggestions as to appropriate products and any proposed application methods, technical details and other product information represent only test results or experience obtained under controlled or defined circumstances, and is therefore provided for general information purposes only.

Unless we agree specifically in writing to do so, we will not be liable to you for any loss or damage whether in contract, tort (including negligence), breach of statutory duty, misrepresentation, misstatement or otherwise, arising under or in connection with this document or such statements.

We disclaim any express or implied representations, warranties or guarantees (including any implied warranty of merchantability or fitness for a particular purpose), though nothing in this disclaimer excludes or limits our liability for death or personal injury arising from our negligence, or our fraud or fraudulent misrepresentation, or any other liability that cannot be excluded or limited by law.

All products supplied and technical advice given are subject to our Standard Terms and Conditions of Sale which you should request a copy of and review carefully.

This document may be modified and updated from time to time, and is uncontrolled once printed. It is the users responsibility to ensure they are using the most up to date version – this can be found at: [www.sherwin-williams.com/protectiveEMEA](http://www.sherwin-williams.com/protectiveEMEA).

If this datasheet has been translated, then it has been done using the English version as the source. In case of any queries, please refer to the master English version which can be found at: [www.sherwin-williams.com/protectiveEMEA](http://www.sherwin-williams.com/protectiveEMEA).