# Declaration of Performance

No. PMB-CPR2020-BRB-001

**1. Unique identification code of the product-type:**
Polymer modified Bitumen according to DIN EN 14023:2013-04

| STYRELF | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/40-65 | 25/55-55 | 45/80-50 | 45/80-55 | 40/100-65 | 40/100-65 | 40/60-75 | 40/100-75 | 40/80-85 | 65/105-50 | 65/105-60 | 65/105-80 | 75/130-65 | 75/130-65 | 75/130-80 | 90/150-75 | 120/200-40 |
| A<br>A AP<br>A RC<br>A RC AP<br>A ECO<br>A ECO AP<br>A Long Life | A<br>A AP<br>A RC<br>A RC AP<br>A ECO<br>A ECO AP<br>A Long Life | A<br>A AP<br>A RC<br>A RC AP<br>A ECO<br>A ECO AP<br>A EM<br>A Long Life | A<br>A AP<br>A Long Life | A<br>A AP<br>A EM<br>A Long Life | A NO | A | A<br>A AP<br>A Long Life | A<br>A AP<br>A Long Life | A | A NO | A<br>A AP<br>A NO<br>A Long Life | A<br>A AP | A NO | A NO<br>A Long Life | A<br>A AP<br>A Long Life | A<br>A AP<br>A EM<br>A Long Life |

**2. Intended uses:**
For construction and maintenance of roads, airfields and other paved areas.

3. **Manufacturer:**
TOTAL Bitumen Deutschland GmbH
Industriegebiet Süd
25541 Brunsbüttel
Point of delivery: TOTAL Bitumen Deutschland, Brunsbüttel

**4. System of assessment and verification of constancy of performance:**
System 2+

**5. Harmonised Standard:**
EN 14023:2010

**Notified Body:**
0780, LGA Bautechnik GmbH, Nürnberg

**6. Declared performance:**
See attached table

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

DocuSigned by:
E80C3DBF9E0E4DA...

Marco Pototzki, Product Safety Engineer
Brunsbüttel, 05.08.2020

## 7. Declared Performance:

| Essential characteristics | Performance | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | System of assessment and verification of constancy of | Harmonised technical specification |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | STYRELF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 10/40-65<br>A<br>A AP<br>A RC<br>A RC AP<br>A ECO<br>A ECO AP<br>A Long Life | | 25/55-55<br>A<br>A AP<br>A RC<br>A RC AP<br>A ECO<br>A ECO AP<br>A Long Life | | 45/80-50<br>A<br>A AP<br>A RC<br>A RC AP<br>A ECO<br>A ECO AP<br>A EM<br>A Long Life | | 45/80-55<br>A<br>A AP<br>A Long Life | | 40/100-65<br>A<br>A AP<br>A EM<br>A Long Life | | 40/100-65<br>A NO | | 40/60-75<br>A | | 40/100-75<br>A<br>A AP<br>A Long Life | | 40/80-85<br>A<br>A AP<br>A Long Life | | 65/105-50<br>A | | 65/105-60<br>A NO | | 65/105-80<br>A<br>A AP<br>A NO<br>A Long Life | | 75/130-65<br>A<br>A AP | | 75/130-65<br>A NO | | 75/130-80<br>A NO<br>A Long Life | | 90/150-75<br>A<br>A AP<br>A Long Life | | 120/200-40<br>A<br>A AP<br>A EM<br>A Long Life | | | |
| | Characteristic | Unit | Cl | | Cl | | Cl | | Cl | | Cl | | Cl | | Cl | | Cl | | Cl | | Cl | | Cl | | Cl | | Cl | | Cl | | Cl | | Cl | | | |
| Consistency at intermediate service temperature | Penetration at 25 °C | 1/10 mm | 2 | 10-40 | 3 | 25-55 | 4 | 45-80 | 4 | 45-80 | 5 | 40-100 | 5 | 40-100 | 5 | 40-100 | 5 | 40-100 | 5 | 40-100 | 6 | 65-105 | 6 | 65-105 | 6 | 65-105 | 7 | 75-130 | 7 | 75-130 | 7 | 75-130 | 7 | 90-150 | 9 | 120-200 | | |
| Consistency at elevated service temperature | Softening Point | °C | 5 | ≥ 65 | 7 | ≥ 55 | 8 | ≥ 50 | 7 | ≥ 55 | 5 | ≥ 65 | 5 | ≥ 65 | 3 | ≥ 75 | 3 | ≥ 75 | 2 | ≥ 80 | 8 | ≥ 50 | 6 | ≥ 60 | 2 | ≥ 80 | 5 | ≥ 65 | 5 | ≥ 65 | 5 | ≥ 80 | 5 | ≥ 75 | 10 | ≥ 40 | System 2+ | DIN EN 14023: 2010 |
| Cohesion | Force Ductility (50 mm/min Dehnung) | J/cm² | 6 | ≥ 2 (at 10 °C) | 2 | ≥ 3 (at 5 °C) | 3 | ≥ 2 (at 5 °C) | 4 | ≥ 1 (at 10 °C) | 2 | ≥ 3 (at 5 °C) | | NPD | 2 | ≥ 3 (at 5 °C) | 2 | ≥ 3 (at 5 °C) | 2 | ≥ 3 (at 5 °C) | 4 | ≥ 1 (at 5 °C) | | NPD | | NPD | 4 | ≥ 1 (at 5 °C) | 4 | NPD | 4 | ≥ 1 (at 5 °C) | 4 | ≥ 1 (at 5 °C) | 5 | ≥ 2 (at 0 °C) | | |
| Durability of the consistency at intermediate and elevated service temperatures | Retained Penetration | % | 7 | ≥ 60 | 7 | ≥ 60 | 7 | ≥ 60 | 7 | ≥ 50 | 7 | ≥ 60 | 7 | ≥ 60 | 7 | ≥ 60 | 7 | ≥ 60 | 7 | ≥ 60 | 5 | ≥ 50 | 7 | ≥ 60 | 7 | ≥ 60 | 5 | ≥ 50 | 7 | ≥ 60 | 5 | ≥ 50 | 5 | ≥ 50 | 7 | ≥ 60 | | |
| | Increase in Softening Point | °C | 2 | ≤ 8 | 2 | ≤ 8 | 2 | ≤ 8 | 2 | ≤ 8 | 2 | ≤ 8 | 3 | ≤ 10 | 2 | ≤ 8 | 2 | ≤ 8 | 2 | ≤ 8 | 2 | ≤ 8 | 3 | ≤ 10 | 3 | ≤ 10 | 3 | ≤ 10 | 3 | ≤ 10 | 3 | ≤ 10 | 3 | ≤ 10 | 2 | ≤ 8 | | |
| | Change of mass | | 3 | ≤ 0,5 | 3 | ≤ 0,5 | 3 | ≤ 0,5 | 3 | ≤ 0,5 | 2 | ≤ 0,3 | 3 | ≤ 0,5 | 2 | ≤ 0,3 | 2 | ≤ 0,3 | 2 | ≤ 0,3 | 3 | ≤ 0,5 | 3 | ≤ 0,5 | 3 | ≤ 0,5 | 3 | ≤ 0,5 | 3 | ≤ 0,5 | 3 | ≤ 0,5 | 3 | ≤ 0,5 | 3 | ≤ 0,5 | | |
| Brittleness at low service temperature | Fraass Breaking Point | °C | 3 | ≤ -5 | 5 | ≤ -10 | 7 | ≤ -15 | 5 | ≤ -10 | 7 | ≤ -15 | 6 | ≤ -12 | 7 | ≤ -15 | 7 | ≤ -15 | 7 | ≤ -15 | 6 | ≤ -12 | 7 | ≤ -15 | 6 | ≤ -12 | 7 | ≤ -15 | 7 | ≤ -15 | 7 | ≤ -15 | 8 | ≤ -18 | 9 | ≤ -20 | | |
| Strain recovery | Elastic recovery at 25 °C | % | 4 | ≥ 50 | | ≥ 50 | 4 | ≥ 50 | | ≥ 50 | 3 | ≥ 70 | | NPD | 2 | ≥ 80 | 2 | ≥ 80 | 3 | ≥ 70 | | NPD | | NPD | | NPD | | NPD | | NPD | | NPD | | NPD | 5 | ≥ 50 | | |
| | Elastic recovery at 10 °C | % | | NPD | | NPD | | NPD | 5 | ≥ 50 | | NPD | | NPD | 2 | ≥ 75 | 2 | ≥ 75 | | NPD | 3 | ≥ 50 | 3 | ≥ 50 | 3 | ≥ 50 | 2 | ≥ 75 | 3 | ≥ 50 | 2 | ≥ 75 | 2 | ≥ 75 | | NPD | | |
| Regulated dangerous substances | | | | NPD | | NPD | | NPD | | NPD | | NPD | | NPD | | NPD | | NPD | | NPD | | NPD | | NPD | | NPD | | NPD | | NPD | | NPD | | NPD | | NPD | | |

NPD: No Performance Determined

Point of delivery: TOTAL Bitumen Deutschland, Brunsbüttel