

# Corabit ES

## PRODUCT DATA SHEET

- pouring compound
- Polymer modified
- For seal joints between rails and the adjoining road surface
- Density: 1.25 g/cm<sup>3</sup>
- Pouring temperature: 170 °C
- According to TL/TP-Fug-StB



**Corabit ES** is an elastomodified hot-casting compound in accordance with TL/TP Fug StB15 and is used for joints between rails and adjacent pavements such as pavement, asphalt or concrete without any special chemical stresses. The **Corabit ES** elastic rail grouting compound prevents water and de-icing salts from penetrating the rail joint.

The **Corabit ES** is elastically adjusted, so that movements are absorbed and flank tensions are well reduced. By using elastomer-modified bitumen, **Corabit ES** remains flexible even at low temperatures.

$$\text{Consumption (kg)} = \frac{\text{Joint length (m)} \times \text{joint depth (cm)} \times \text{joint width (cm)} \times \text{density} \left( \frac{\text{g}}{\text{cm}^3} \right)}{10}$$

### Application

**Joint preparation:** The joints must be clean and dry. Contamination adhering to the flanks of the joints must be removed completely and cleanly. If necessary, they must be blown out with compressed air or dried and preheated with hot air devices operating with pressure. The joint gap width and depth as well as the joint filling height can be found in the corresponding tables of the ZTV Fug-StB 15.

**Preparation:** The rail joint is to be completely primed with the Corabit VG primer up to the upper edge. The primer is applied using a brush or sprayer. The primer must be completely aired before pouring.

**Melting:** The potting cooker must have an agitator, be covered and indirectly heated. At no point must the temperature of the casting compound be more than 30 °C above the casting temperature (max. + 200 °C). The temperature of the casting compound must be controlled thermostatically. It must be controllable. The agitator must be switched on as early as possible and remains in operation at all times. If the processed mass cannot be processed in one day, the boiler must be emptied. The remelting of cooled casting compound is permitted only twice.

**Backfilling:** The joints are filled mechanically with grouting lances from indirectly heated, mobile casting machines or, in the case of a small amount of work, with conventional casting cans. The grouting must only be used in dry joints in dry weather and a surface temperature of the joint flanks of at least 0 °C. In frost, no watering is allowed. The casting temperature is +170 °C. Falling below the prescribed temperature means that the fluidity of the grouting compound suffers and the joints to be poured are no longer completely filled. There is a risk of cavity formation, which can later result in sagging of the grouting under rolling traffic. The filling of the joint space should be carried out in two steps, as a significant reduction in volume can occur after the grouting compound has cooled down. The re-pouring should take place immediately after the first casting has cooled down on the still shiny and clean surface of the casting. In summer temperatures, we recommend splitting the material.

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### Form of delivery

Corabit VG-Primer in containers of 1 l / 5 l / 10 l and in spray cans of 500 ml

	Container weight [kg]	Container/pallet [-]
Corabit S	12	64
	27	27

### Requirements

according to DIN EN 14188-1 for N2 grounds, Table 2, requirements according to TL/TP-Fug StB 15, Table 1

Test method	Test method	Unit	manufacturer information
Softening point	DIN EN 1427	°C	95 ± 8
Density at + 25 °C	DIN EN 13880-1	g/cm <sup>3</sup>	1.25 ± 0.05
Cone-Penetration bei + 25 °C	DIN EN 13880-2	0.1 mm	40 ± 10
Ball penetration and elastic recovery	DIN EN 13880-3	%	40 ± 10
Heat resistance, cone penetration	DIN EN 13880-4	0.1 mm	65 ± 10
Heat resistance, elastic resilience	DIN EN 13880-4	%	40 ± 10
Flow length, initial	DIN EN 13880-5	Mm	≤ 2
Flow length, after heat stress	DIN EN 13880-5	Mm	≤ 3
Compatibility with asphalts	DIN EN 13880-9	-	Files
Adhesion and elongation, initial total elongation 5 mm at - 20 °C Tensile stress Adhesion and elongation	DIN EN 13880-13	N/mm <sup>2</sup> -	≤ 0.4 Files
Adhesion and elongation after 14 d water storage G Total elongation 5 mm at - 20 °C Tensile stress Adhesion and elongation	DIN EN 13880-13	N/mm <sup>2</sup> -	≤ 0.4 Files
Adhesion Total elongation 18 mm (75%) at 0 °C	DIN EN 13880-10	-	Files

All information corresponds to the current state of the art, but is without legal claim. Technical changes reserved.

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-- Rev.: 00\_27.08.2024 --