

# HEGSEL® Coat 197

High-Gloss Polyurethane Topcoat

*You Build, We Protect!*

**Description:**

**HEGSEL Coat 197** is a two-component, high-gloss, high-build polyurethane topcoat based on hydroxyl acrylate and aliphatic isocyanate. It provides excellent durability and is specifically developed for protection under critical climatic and maritime conditions. The coating offers outstanding colour and gloss retention, making it suitable for applications requiring long maintenance intervals.

**Characteristics:**

- High mechanical strength and durability
- Excellent colour stability (non-yellowing)
- Capable of anti-graffiti properties when used with a designated activator (Contact HEGSEL)
- Remarkable outdoor durability
- Good scratch resistance
- Resistant to mildly aggressive chemicals
- VOC ≤ 435 g/l
- Low dirt pick-up characteristics

**Application Areas:**

**HEGSEL Coat 197** is recommended for protection in critical climatic and maritime conditions. It is also suitable for application on buses, commercial vehicles, lorries and trailers, as well as agricultural, construction, and earth-moving machinery (ACE), where a high-performance finish is required.

**Application Data:**

<b>Finish</b>	High gloss (90 ± 5 GU at 60°) <b>Note:</b> The final gloss level is influenced by the substrate condition and applied film thickness, and may in some cases differ from the stated values.			
<b>Colour</b>	Standard colours (e.g. RAL, NCS), chrome- and lead-free			
<b>Mixing Ratio</b>	Base: Activator = 3 : 1 (Parts by volume) <b>Note:</b> For anti-graffiti properties, a designated Activator is required. Please contact HEGSEL.			
<b>Theoretical Consumption</b>	~ 0.12 kg/m <sup>2</sup> @ 50 microns DFT			
<b>Practical Consumption</b>	For large areas: ~ 0.17 kg/m <sup>2</sup> @ 50 microns DFT For small areas: ~ 0.23 kg/m <sup>2</sup> @ 50 microns DFT <b>Note:</b> Performance in practice varies with site conditions; so, the stated coverage values should be used only as guidelines for airless spraying.			
<b>Standard Dry Film Thickness (DFT)</b>	40 - 60 micron (depends on application process)			
<b>Temperature</b>	<b>5 °C</b>	<b>10 °C</b>	<b>20 °C</b>	<b>30 °C</b>
<b>Pot Life</b>	-	-	2 hrs	-
<b>Drying Time (Dust free)</b>	90 min	1 hr	30 min	20 min
<b>Drying Time (Manageable)</b>	8 hrs	4 hrs	2 hrs	90 min
<b>Overcoat Interval</b>	24 hrs	12 hrs	6 hrs	4 hrs

**Note 1:** All the provided values are approximate and should be used as guidelines for specifications.  
**Note 2:** Drying times obtained using Activator at a nominal dry film thickness of 50 µm. At higher film thicknesses, longer drying times must be considered.  
**Note 3:** The maximum overcoating interval is unrestricted, as long as the surface is clean and devoid of grease and oil.

**Technical Data:**

Title	Standard	Value
<b>Solids Content (Mix)</b>	-	~ 54% Parts by volume (depends on colour)
<b>Density (Mix) @ 20 °C</b>	-	~ 1.25 kg/l
<b>Accelerated Weathering</b>	ISO 11507 / ASTM G154	> 6000 hours (no significant degradation observed under test conditions)
<b>Temperature Resistance</b>	-	Dry heat: Up to 120 °C

**Packaging:**

20 litre cans and 200 litre drums  
**HEGSEL Coat 197 Thinner:** 25 litre cans or 200 litre drums

**Storage:**

12 months, in sealed original containers under dry and cool conditions, ideally between 5 – 40 °C. Protect from heat and freeze!

## 1. Surface Preparation

**Steel:** Steel surfaces shall be prepared to a cleanliness level of Sa 2½ in accordance with ISO 8501-1, with a blasting profile of 40–70 µm, or alternatively cleaned using power tools to a minimum standard of ISO St3 / SSPC SP3.

For untreated steel, surface preparation shall be carried out in accordance with ISO 12944-4 §6.2.3. All grease, oil, dirt, and other contaminants must first be removed using a suitable cleaning agent such as **HEGGEL Cleaners** applied with a high-pressure spraying pistol. The surface shall then be grit blasted to Sa 2½ according to ISO 8501-1. After blasting, all dust must be removed from the entire surface using clean, dry, oil-free compressed air. The first coating layer must be applied within 6 hours after blasting. If the final coating layer is to be applied on the construction site, additional precautions must be taken to maintain surface cleanliness and coating performance.

**Hot dip galvanized:** The surface must be prepared in accordance with ISO 12944-4, section 6.2.3.4.1 (sweep blasting with inert grit) and NEN 5254 for duplex systems. All grease, oil, and contaminants should be removed using a suitable cleaning agent like **HEGGEL Cleaners**. The entire galvanized surface must then be lightly sweep-blasted using an inert abrasive with a grain size of 0.3–0.5 mm, at a blasting pressure of 2.0–2.5 bar and a minimum nozzle diameter of 6 mm. After blasting, the surface should exhibit a uniform, matte appearance. Depending on the zinc coating thickness, a maximum of 5–10 µm of zinc may be removed, as specified in NEN 5254. Finally, remove all dust from the surface using clean, dry, oil-free compressed air. Apply first coating layer within 2 hours.

## 2. Environmental Conditions

Prior to, during, and after application of the coating, ensure that the substrate temperature is at least 3 °C above the dew point and the maximum relative humidity shall be below 80%. Furthermore, any contact with moisture must be avoided during application process.

## 3. Application Tools

**Air spray:** For effective application, use conventional air spray equipment. Thin the material with **HEGGEL Coat 197 Thinner** at 5–10 by volume. Maintain a flow pressure of minimum 3 bar for optimal operation. Use a nozzle size of minimum 2.0 mm. The achievable dry film thickness is in the range of 40–60 µm.

**Airless spray:** Apply using standard airless spray equipment. Thin the material with **HEGGEL Coat 197 Thinner** at 0–5 by volume. Operate at a pressure minimum of 140 bar and a nozzle size of minimum 0.009 inch. The achievable dry film thickness is in the range of 40–60 µm.

**Air mix:** Application may be carried out using Air mix spray equipment. Thin the material with **HEGGEL Coat 197 Thinner** at 0–5 by volume. Maintain a flow pressure of minimum 70 bar and use a nozzle size of minimum 0.009 inch. The recommended dry film thickness per coat is 40–60 µm.

**Brush / Roller:** Thinning may be carried out using **HEGGEL Coat 197 Brush Thinner** at 0–5 by volume if required. Typically, a film thickness of 40 microns per coat can be achieved using this procedure.

## 4. Mixing

Thoroughly mix the base component and activator using a mechanical mixing device. Ensure the temperature of the mixed material is maintained at a minimum of 10°C during application.

## 5. Application

The coating is preferably recommended to be applied using airless or air mix spray equipment, as brush application may result in variations in film thickness and reduced flow properties.

The product can be applied without thinning when using airless spray equipment.

Apply uniformly to achieve required dry film thickness.

Where thinning is required, the amount of **HEGGEL Coat 197 Thinner** should be adjusted to 0–10 vol.% depending on the

equipment used, application method, and temperature of the mixed material.

**Note:** Clean all equipment immediately after application using **HEGGEL Coat 197 Thinner**.

## 6. Repairing Defects

Touch-up of damaged or untreated areas shall be carried out on site. Remove grease, oil, and dirt using a suitable cleaning agent, like **HEGGEL Cleaners**. Remove rust from mechanically damaged areas, weld seams, weld spots, and heat-affected zones using rotating steel wire brushes, sanding discs, or coarse sandpaper to a minimum cleanliness grade St 3 in accordance with ISO 8501-1.

Smooth the transition between cleaned areas and adjacent intact coatings by sanding and scraping. After sanding, remove all dust using clean, dry, oil-free compressed air. Then repair the area using the complete coating system in accordance with the coating specification. Minor surface damage may be repaired using the top coat only.

**Note:** Regular cleaning of the surface is recommended. The coating system should be inspected annually for defects, and any damage shall be repaired using the original coating system.

## 7. Safety Measures

**HEGGEL Coat 197** (UN number: 1263) is in accordance with EU Directive 67/548/EEC and applicable hazardous substances regulations.

Ensure adequate ventilation during application and drying to reduce solvent vapors. This is necessary to achieve proper drying conditions and to protect applicators' health. Causes skin and eye irritation and may be harmful if inhaled. In case of eye contact, immediately rinse thoroughly with water and seek medical attention. Do not eat, drink, or smoke while handling this product. Keep away from heat, sparks, and open flames.

The material safety data sheets of the individual components, the safety instructions on the packing (label) as well as the legal requirements for handling hazardous materials must be observed.

**HEGGEL Coat 197**; Revision No: 0.00 / Last Revision Date: 20.03.2026

All information contained herein is based on the current state of our knowledge and practical experience at the time of release. Therefore, please make sure that this is the latest edition of the Technical Data Sheet. All data are only intended as a guideline for informational purposes and do not constitute a legally-binding warranty of the suitability for a certain purpose of use, due to its dependence on site conditions and possible processing, use and applications. All information contained in this technical datasheet is subject to change without notice.

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