HEGGEL[®] EP 611

Wear Resistant Epoxy Resin Based Filler System



You Build, We Protect!

Description:	HEGGEL EP 611 is a highly wear resistant filler system with hard material fillers based on an epoxy resin.				
Characteristics:	 Short curing time Highly wear resistant Joint less Layer thicknesses from 5 mm up to 40 mm Temperature resistance up to +150°C (Steel substrates Overhead application possible 				
Applications:	HEGGEL EP 611 is suitable for the manufacture and the repair of wear protective liners, especially in areas which are difficult to access or having complicated geometries. The system is suitable for overhead application.				
Chemical Resistance:	Information on the chemical resistance is available on request.				
Substrate:	Components shall be designed and manufactured in accordance with EN 14879-1. Before HEGGEL EP 611 is applied, the suitability of the surface preparation measures according EN 14879-1 must be checked and recorded.				
Pot Life (20°C):	Product		Time		
	HEGGEL EP 611		Approx. 30 min		
Curing (20°C):	Load Capacity		Time		
	Accessible		Approx. 8 hrs		
	First Time Operation	Approx. 1 day			
	Fully Loadable	Approx. 5 days			
Packaging:	The products are supplied in the following s	tandard package sizes:			
	Product		Size		
	HEGGEL EP 611 Solution		4 kg		
	HEGGEL EP 611 Hardener		1.45 kg		
	HEGGEL EP 611 UNI		8.4 kg		
Storage:	The products must be stored in a cool and dry place, away from direct sunlight. At the specified storage temperatures, a shelf life of the products is given of at least for the following periods:				
	Product	Temperature	Shelf Life		
	HEGGEL EP 611 Solution	≤ +20°C	12 Months		

HEGGEL EP 611 Hardener

If the storage time is exceeded, the materials must be tested before use. Higher storage and transport temperatures will reduce the shelf life. The containers must be kept tightly closed. Liquid products must be stored frost-proof.

≤ +20°C

12 Months

1. Surface Preparation

HEGGEL EP 611 is applied on steel or mineral surfaces.

1.1. Carbon Steel

All contaminants, including non-visible detectable contaminants, must be removed in accordance with DIN Fachbericht # 28 and EN ISO 8502.

Ferretic steel surfaces shall be abrasive blasted to "Near White Metal". A standard preparation degree of SA 2½ according EN ISO 12944-4 and a minimum roughness degree of R_z = 70 µm must be achieved. To prevent flash rust, the primer must be applied immediately after the blasting and cleaning of the substrate.

1.2. Concrete

Appropriate action shall be taken to prepare the concrete surfaces; dry and free of dust and free of contaminants such as oil or grease. The concrete shall have minimum peel strength of 1.5 MPa. The residual moisture content must not exceed 4%. A mechanical treatment by blasting with solid abrasives, high pressure water blasting or shot blasting is recommended. After milling, flame blasting or prying a blasting is also required.

2. Environmental Conditions

Environmental Conditions	Value	
Relative Humidity	≤ 80%	
Surface Temperature	≥ +10°C up to +30°C	
Application Temperature	+20°C ± 5°C	
Application reliperature	recommended	
Dew Point Distance	min 3°C (> 5°C at a	
Dew Fornt Distance	relative humidity > 70%)	

3. Application

HEGGEL EP 611 is applied on steel or concrete by using a mortar trowel.

4. Application Tools

The following list of equipment is essential for the application of **HEGGEL EP 611**:

- Stirrer (max 300 rpm)
- Measuring cup
- Mixing vessels
- Brushes
- Mortar trowel
- Grouting tool
- Miscellaneous (safety glasses, rubber gloves etc.)

5. Mixing Ratio

Fill **HEGGEL EP 611 Solution** in a mixing vessel and add **HEGGEL EP 611 Hardener** at the specified mixing ratio. The stirring of the merged components should be at least 3 minutes and must result in a homogeneous mixture. Then pour the mixture into a clean pail and mix again briefly.

Primer	kg	Parts per Weight	Weight per Litre
HEGGEL EP 611 Solution	4.00	100	2.10 Kg
HEGGEL EP 611 Hardener	1.45	36.25	

6. Cleaning

Clean all equipment immediately after use with **HEGGEL EP 611 UNI**. The cleaning is carried out as long as the material is not cured.

7. Safety Measures

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 EP 611; Revision No: 1.10 / Last Revision Date: 20.07.2023

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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