



HEGSEL® Flake 790

High Abrasion Resistant Vinyl Ester Based Top Coat

You Build, We Protect!

Description:

HEGSEL Flake 790 is a high-performance top coat based on vinyl ester resin and designed for HEGSEL systems. The formulation provides excellent chemical and thermal resistance and cures reliably even under challenging ambient conditions. It forms a durable protective layer with outstanding abrasion and wear resistance.

Characteristics:

- Exceptional wear and abrasion resistance
- High chemical resistance
- Temperature resistance up to 140 °C
- Good mechanical performance

Application Areas:

Designed for application as a top layer in highly abrasive areas of flue gas desulphurization absorbers and other industrial components. It is also suitable for demanding floor and wall coatings.

Application Data:

Mixing Ratio (Parts by Weight)		HEGSEL Flake 790 Solution		5.000 kg
		HEGSEL Flake 790 Accelerator		0.100 kg
		HEGSEL Flake 790 Hardener		0.100 kg
		HEGSEL Flake 790 Powder		13.500 kg
Temperature		10 °C	20 °C	30 °C
Curing Time	Walkability	~ 8 hrs	~ 6 hrs	~ 4 hrs
	Mechanical Load	-	~ 7 days	-
	Chemical Load	-	~ 7 days	-
	Maximum Waiting Time (Between operations)	~ 144 hrs	~ 96 hrs	~ 48 hrs
Pot Life		-	~ 30 - 60 min	-

Note: Depending on the actual ambient temperature, the pot life may vary.

Packaging:

The products are supplied in the following standard package sizes:

Product	Size	Package
HEGSEL Flake 790 Solution	25 kg	Hobbock
HEGSEL Flake 790 Accelerator	2.5 kg	Jug
HEGSEL Flake 790 Hardener	1 kg	Bottle
HEGSEL Flake 790 Powder	25 kg	Bag

Storage:

The products must be stored in a cool and dry place. At the indicated storage temperatures, the shelf life of the products is at least the below mentioned periods:

Product	Temperature	Shelf Life
HEGSEL Flake 790 Solution	20°C	9 Months
HEGSEL Flake 790 Accelerator	20°C	24 Months
HEGSEL Flake 790 Hardener	20°C	12 Months
HEGSEL Flake 790 Powder	20°C	24 Months

Higher temperatures by storage and transport would reduce the shelf life, whereas lower temperatures would extend the minimum shelf life. The containers are to be kept closed tightly. All liquid products must be stored in frost-proof conditions.

1. Surface Preparation

HEGGEL Flake 790 is intended for application over vinyl ester resin based HEGGEL systems. The surface must be dry, clean, and free from loose and friable parts, structural defects, and any substances impairing adhesion.

2. Environmental Conditions

The specified environmental conditions must be complied with during surface preparation and application. During the application, the substrate must be kept completely dry. No moisture (condensate, mist, etc.) may get onto the surfaces that are to be protected.

Environmental conditions	Value
Application Temperature	≥ 10 °C up to 30 °C
Dew Point Distance	min. 3°C (At a relative humidity of above 70% at least 5°C.)

3. Application Tools

- Trowel
- Scale
- Mixing vessel

4. Mixing

Use a mixer at an appropriate speed to gently blend the materials until a uniform mixture is obtained.

5. Application

Initiate processing exclusively when application conditions are fulfilled and can be maintained throughout the entire processing and curing.

HEGGEL Flake 790 is applied in single layer with 1 mm thickness. consumption is ~ 2.200 kg/m². 1 batch is sufficient for ~ 8.5 m²

6. Chemical Resistance

Information on the chemical resistance is available on request.

7. Cleaning

To remove fresh contamination and clean tools, use **HEGGEL Cleaner** immediately. Cleaning shall only be carried out in well-ventilated areas. Hardened material can only be removed mechanically.

8. Safety Measures

Ensure good ventilation, especially in confined spaces. No smoking or open flames. Use appropriate protective gear. If it contacts skin or eyes, rinse with plenty of water and seek medical advice if needed. Avoid ingestion and keep away from ignition sources. Use residual material where possible. Do not dispose of it via drains or general waste; collect waste in sealed, labelled containers.

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

Technical Data

Title	Standard		Value
	DIN	ASTM	
Density	DIN EN ISO 1183-1	ASTM D792	2.2 g/cm ³
Abrasion Resistance	-	ASTM D4060 (Taber Disc CS 17)	70 mg/1000 turns
Barcol Hardness	DIN EN 59	-	40
Compressive Strength	DIN EN ISO 604	ASTM C579	100 MPa
Temperature Resistance	-	-	Up to 140 °C

Note: Values are average values.

HEGGEL Flake 790; Revision No: 0.00 / Last Revision Date: 26.02.2026

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.

HEGGEL GmbH

Huttropstr. 60
45138 Essen
Germany

Tel: +49 201 17003 270

Fax: +49 201 17003 277

E-Mail: info@heggel.de

Web: www.heggel.de