

# GH 754 - 7 / GH 754 - 1

## Technical Datasheet



### Filled epoxy resin

#### Applications

vacuum forming tools  
foaming moulds

#### Properties

filled with aluminium powder  
heat resistance 97 °C  
coefficient of linear expansion  $42 \times 10^{-6} \text{ 1 / K}$

#### Processing data

Product		Mixture	Resin	Hardener
		GH 754 - 7 / GH 754 - 1	GH 754-7	GH 754-1
Colour		aluminum gray	aluminum gray	yellowish - transparent
<b>Mixing ratio</b>	<b>p.b.w.</b>		100	10
Viscosity at 25 °C	mPas	5000 ± 1000	30000 ± 5000	80 ± 15
Density at 20 °C	g/cm <sup>3</sup>	1,75 ± 0,05	1,95 ± 0,05	0,97 ± 0,02
Pot Life	Minutes	100 - 120		
Demoulding time	Hours	18 - 24		

#### Physical data

Properties	Inspect. Requirements	Unit	Value
Flexural strength	EN ISO 178*	MPa	100 ± 5
Flexural elongation at break	EN ISO 178*	%	2,0 ± 0,2
Flexural modulus	EN ISO 178*	MPa	8200 ± 200
Compressive strength	EN 604*	MPa	100 ± 10
Impact resistance (Charpy)	EN ISO 179*	kJ/m <sup>2</sup>	13 ± 3
Heat deflection temperature HDT	DIN EN ISO 75-1*	°C	97 ± 3
Coefficient of linear expansion 20 - 50 °C	Internal audit/Dilatometer	10 <sup>-6</sup> K <sup>-1</sup>	~ 42
Shore hardness	DIN ISO 48-4*	Shore D	89 ± 3

\* based on

#### Sales units (packages)

GH 754-7 grey resin 10 kg drum  
GH 754-7 grau Harz 25 kg Eimer  
GH 754-1 yellow transparent hardener 1 kg bottle  
GH 754-1 yellow transparent hardener 2,500 kg can

#### additional products

Release agent T1-1 liquid whitish 1 ltr. bottle  
Release agent T1-1 liquid whitish 5 ltr. can

## Processing instructions

Material- and processing temperature: between 18 - 25 °C.  
Close containers after use.

Seal porous mould surfaces first

For optimal mould release, we recommend using a suitable release agent (e.g., T 1-1), which can be easily applied with a brush. The mold should be treated 2-3 times and aired for about 20 minutes after each application.

The mixing ratio of resin and hardener must be adhered to according to the specifications.

For bubble-free mixing, we recommend our star stirrer.

Resin residues on stirring rods, etc., can be easily cleaned with ebaclean.

## General

GH 754 - 7 is a thick - castable, aluminium-filled, temperature-resistant two-component epoxy resin which has an aluminium-like character after curing.

GH 754 - 7 can be casted to a thickness of approx. 50 mm. Filled with massive aluminium granules, thicknesses of more than 100 mm can be casted

All specified characteristic values were determined after thermal conditioning at 80 °C for 8 hours. The pot life was determined in accordance with internal test procedures using a 200 g sample at room temperature (approx. 23 °C).

The demolding times refer to demolding at room temperature

## Storing

Storage at room temperature 18-25 °C.

Opened containers should be closed immediately after use and should be used up as soon as possible.

Please refer to the product labels for the shelf life of the material.

## Safety measure

Please follow the precaution instructions of the Government Safety Organisation of the chemical industry when working with this material.

Please refer to the respective safety data sheets

## Waste Disposal

The cured materials can be disposed of as household or commercial waste in consultation with the respective competent authority.

Uncured products must be properly disposed of in consultation with the competent authority.

For further questions, our product safety department is at your disposal.

## Compliance & Legal

The information and recommendations provided are based on careful evaluation and practical experience. They reflect the state of our knowledge at the time of provision. Updates may be made without notice.

The information is intended as general guidance and does not constitute a warranty of specific characteristics or properties of the product. Due to the wide range of potential applications and processing methods, not all individual use cases can be covered.

The product must be used in accordance with the applicable safety and usage instructions. No liability will be accepted for improper use or application outside the intended purpose.

Unless otherwise agreed, it is the responsibility of the user to independently assess the suitability of the product for the intended application and processing method.

The information provided does not release the user from the obligation to seek individual advice in cases of uncertainty regarding specific applications.

Statutory warranty rights remain unaffected.