

# CS Hi-Build Physical Properties

Version 1.3 2023

## Properties at 20 °C

	Component A	Component B
Density (g/cm <sup>3</sup> )	1,26	1,26
Viscosity (mPa·s)	17871	2206
Appearance/Fineness	Spatula-smooth	Spatula-smooth

## Properties at 20 °C - Once Mixed (100 g.)

<b>Mixing Ratio (Volume)</b>	2:1
<b>Mixing Ratio (Weight)</b>	66,85 : 33,15
<b>Density</b>	1,26 g/cm <sup>3</sup>
<b>Potlife</b>	60 min.
<b>Peak Exotherm</b>	120 °C after 92 min.
<b>Heat Resistance</b>	210 °C
<b>Coverage Rate, theoretical</b>	0,76 kg/m <sup>2</sup> (0,60 l/m <sup>2</sup> )

## Compressive Strength

SO (mm <sup>2</sup> )	E (N/mm <sup>2</sup> )	Fcrack (N)	Rcrack (N/mm <sup>2</sup> )	Fmax (N)	Rmax (N/mm <sup>2</sup> )	Compression (%)
161,39	2517,0	14684,7	91,0	14694,7	91,1	47,09

## Tensile Strength

SO (mm <sup>2</sup> )	E (N/mm <sup>2</sup> )	Fcrack (N)	Rcrack (N/mm <sup>2</sup> )	Fmax (N)	Rmax (N/mm <sup>2</sup> )	Elongation (%)
39,78	369,4	819,0	20,6	824,5	20,7	2,94

## Hardening

Time	16 hrs.	24 hrs.	7 days
Shore D @ 20 °C	83	83	83

## Adhesion NEN-ISO 4624

	(N/mm <sup>2</sup> )	Pull off Type
To Steel	7,6	40% -Y, 60% Y/Z
To Aluminum	7,2	-Y 95%, Y/Z5%
To Concrete	5,6	100% A (=integral strength of the concrete)

## Dielectric strength

Dielectric strength

26,5 KV/mm

DIN 53483

## Coverage Rate

Theoretical

0,76 kg/0,6 l per m<sup>2</sup> at 600 µm

## Compatibility

We recommend testing the compatibility between the CS Hi-Build and other products prior to full application.

### When still tacky

- Wencon CS Hi-Build is in general compatible with other epoxy-polyamide / amine paint & polyurethane coatings.
- Can be applied on other epoxies as well as some polyester(s) (fabric).

### When cured

- Wencon CS Hi-Build is in general compatible with other epoxy-polyamide / amine paint & polyurethane coatings. These substrates bond well to each other as long as the surfaces are clean and slightly abraded.

## Storage & Shelf life

Only use containers specifically approved for the substance/product. Store only in original container.

Shelf life, if stored in dark dry place, 3 years @ 20 °C.

## Chemical Resistance

See chemical resistance list or consult relevant contact for lab test.

## Taber Test CS Hi-Build

CS Hi-Build	Start weight (g)	End weight (g)	Weight loss (g)	Average Wear index
Test 1	87,20	87,10	0,10	95,8
Test 2	75,64	75,55	0,09	

Wear Index (Taber) according to ISO 7784-2 performed on a Taber Digital Abraser model 5130.

## Handling precautions

Read the instructions for use. For the latest MSDS version visit [www.wencon.com](http://www.wencon.com)

## Recommended Inspection and QC

The inspection shall cover the complete application process, i.e. surface preparation and paint application. Supervision of the coating work recommended to be conducted and comply with ISO 12944-7: "Paints and Varnishes", part 7 and ISO 12944-8: "Paints and Varnishes", part 8.

## Viscosity Curve

Component A		Component B	
Temperature (°C)	Viscosity (mPa·s)	Temperature (°C)	Viscosity (mPa·s)
20	17871	20	2206
30	9613	30	1393
40	6030	40	1093
50	4257	50	815
60	3310	60	676

