

Product Data Sheet

ISO-Foam Cast Resin „HS“

Description:

ISO-Foam Cast Resin „HS“ is a 2-component rigid foam system with closed cell structure. The system is suitable for filling various types of hollow spaces, e.g. in building and construction applications, for low voltage cable joints, but also in marine applications (boat body) and packaging.

The foaming process is exclusively effected by the chemical reaction of the hardener (aromatic polyisocyanate) and water (ingredient of the resin). ISO-Foam Cast Resin „HS“ does not contain any ozone depleting agents or other volatile blowing compounds.

Processing:

Resin and hardener have to be mixed right before use. To make processing easier, both components are supplied as a kit already in the correct ratio. Mixing should not exceed about 30 seconds, the mixture is then poured into the cavity to be filled and foaming will start. Processing with automatic mixing and dosing equipment is also possible without any problems.

Technical Data:

resin	flash point	> 200°C
	viscosity / 23°C	app. 500 mPa s
	colour	clear (coloured modification available on request)
	density / 20°C	1.0 g/cm ³
hardener	flash point	> 200°C
	viscosity / 23°C	app. 120 mPa s
	colour	brown
	density / 20°C	1.2 g/cm ³

Continuation Technical Data ISO-Foam Cast Resin „HS“

Properties of the foam:

mixing ratio resin : hardener	1 : 1,44 pbw (recommended)	
Beginning of foaming after mixing hardener and resin	app. 60 sec	
tack-free after	app. 7 min	
foam density	app. 40 kg/m ^{3*}	
open cell content	< 10 %	
water vapour permeability	app. 6 g/m ² d	DIN 53429
compression strength	at 10°C 2 MPa at 20°C 1.5 MPa at 50°C 1 MPa	DIN 53421
thermal expansion coefficient	6.1 * 10 ⁻⁶ K ⁻¹	
dielectric strength	20 kV/mm	DIN 53481
volume resistivity	1.0 * 10 ¹⁶ Ohm cm	DIN 53482
track resistance	KA 3 a	DIN 53480
combustibility class	B2	DIN 4102

* depending on processing conditions

Please see material safety data sheet for additional information.