



TECHNICAL INFORMATION

SS 40 – SPRAY

Introduction

SS 40 – CFC free is a two component polyurethane system developed for the manufacture of rigid polyurethane foam. It has been designed for spray on roof applications that serves as an excellent insulation material. It is a CFC free system and thus complies with the environment friendly regulations act having the same properties of that of CFC based foams.

Applications:

SS 40 – CFC free is mainly used for spray applications. The grade is suitable to be processed with low and high pressure dispensing machines.

Component A is a polymeric Diphenyl Methane Diisocyanate and has following properties:

Appearance	: Clear Dark Brown Liquid
Viscosity @ 20 ⁰ C	: 220± 20 cps
Specific Gravity @ 20 ⁰ C	: 1.25±0.001
Free Isocyanate Content %	: 31±0.5

Component B – is a blend of different polyols, additives and blowing agents. The blowing agent used is HCFC 141B that leads to the formation of polyurethane foam. The typical Properties of Component B are:

Appearance	: Clear Pale Yellow Liquid
Viscosity @ 20 ⁰ C	: 400± 20 cps
Specific Gravity @ 20 ⁰ C	: 1.20±0.001

The reaction profile of SS 40 CFC free is typically as follows:

For a laboratory cup test, when both components maintained at 20 ⁰ C	
And mix ratio being	
Component A	: 100 pbw
Component B	: 100 pbw
Then reactivity is as follows:	
Cream Time	: 5-6 seconds
Rise time	: 15-17 seconds
Tack Free Time	: 15-17 seconds
Free Rise Core Density	: 28-30 Kg/m ³



Typical Foam Properties for Sprayed Foams Manufactured from SS 40

Spray Density	Kg/m ³	38-42
Closed Cell Content	%	>96
Initial Thermal Conductivity	W/m °K	0.020
Dimensional Stability (Linear Change)		
72 hrs at -20°C	%	Maximum 1
72 hrs at 70°C	%	Maximum 1
Compressive Strength (perpendicular to the main panel)	Kpa	180

*Test methods are available on request

Packing :

Component A : 250kg net
Component B : 220 Kg net

Storage Information :

We recommend the component containers to be kept in a dry and cool area at 20°C maximum. All the containers are to be kept well closed to avoid contamination with moisture or any other foreign matter that would result in a negative performance of the product.

The information give herein are true to the best of our knowledge and general industrial experience. However, the properties are subjected to change depending on the handling and processing conditions at the customer's end, which is not under our control.