TECHNICAL INFORMATION

INTERFOAM WP-2023HD POLYOL

Description

Interfoam WP-2023HD Polyol is designed for low-density system used in roof panel applications. This series of polyols reacts with isocyanates, exhibiting good characteristics such as excellent fluidity, even foam distribution, and enhanced compressive strength. It also demonstrates strong adhesion to steel and paper surfaces, along with excellent dimensional stability.

Physical Properties

Appearance:	Yellow liquid without any deposit
Viscosity (25°C):	600±200
Specific gravity (25°C):	1.07

Formulation and Reactivity

Components	Part by Weight
Interfoam WP-2023HD Polyol	100
pMDI	140-180

Reactivity	Unit	Range
Hand mixing ≥2000rpm for 3 seconds (raw materials at 30-35°C, room temp. at 25°C)		
Cream Time	s	5-8
Gel Time	s	30-40
Tack Free Time	s	40-60
Free Rise Density	kg/m³	22±0.5

Below are physical performance test results from the lab using high pressure machine sample test (core density 28.0 kg/m^3):

10% compressive strength:	130 Kpa
K-factor (25 °C):	25.4 mW/m.K

Dimensional stability (after 48h test, %):

	Length	Breadth	Thickness
-20 °C	-0.15	-0.12	-0.13
50 °C	-0.10	-0.13	0.10

Storage Condition

Interfoam WP-2023HD Polyol product has a shelf life of 6 months from the date of manufacture, provided it is stored in factory-packed containers and protected against extreme weather conditions, particularly heat and moisture. The optimum storage temperature of Interfoam WP-2023HD Polyol product is between 5°C and 30°C. Lower and higher storage temperatures are not preferable and should be avoided.

Safety and Information

Considering the composition of Interfoam WP-2023HD Polyol product and extensive manufacturing and usage experience with similar products, it has been observed that there is no significant risk to user health, although certain ingredients in the mixture can pose mild toxicity risks if swallowed or inhaled and may cause skin and eye irritation. Therefore, handling of these products should adhere to standard industrial hygiene practices, including the use of appropriate protective clothing, goggles, and ensuring adequate ventilation. In case of skin contact, wash the affected area with soap and water. If in contact with eyes, rinse thoroughly with plenty of water and seek medical attention if irritation persists. It is advisable for individuals who suffer accidental injury to be examined by a doctor. Additionally, be aware of fire and explosion hazards associated with the product.