

# CRES®FOAM SF-40

Two component, spray-applied polyurethane foam system  
(Polyol)



**CRESFOAM SF-40** is a formulated polyol engineered for polyurethane spray foam system. It is suitable for insulation of roofs, walls, and ceiling, providing a stable foam density of  $42\pm3$  kg/m<sup>3</sup>. Pre-blended with HCFC and optimized for use with CRESFOAM MDI.

CRESFOAM SF-40 system superior application efficiency, durability, and energy-saving benefits for modern construction projects.

## PHYSICAL PROPERTIES

| Description            | Value                  | Test Method |
|------------------------|------------------------|-------------|
| Appearance             | Yellow to brown liquid | -           |
| Viscosity @25°C, mPa·s | 250±50                 | KCI-QC-101  |
| Specific gravity @25°C | 1.16±0.03              | KCI-QC-102  |

These values provide general information and are not part of the product specification.

## APPLICATION

- Combo roof system.
- Ceiling and wall insulation.
- Storage tank insulation.

## KEY ADVANTAGES

- Bonds strongly to concrete, metal, and wood.
- Fast drying - quicker project completion.
- Light weight - no extra structural load
- Low thermal conductivity - excellent insulation.

## MIX RATIO

1:1 by volume at laboratory test results at 20°C.

- Cream time :  $5\pm2$  sec
- Tack free time :  $12\pm4$  sec
- Free rise density :  $27\pm2$ kg/m<sup>3</sup>

## TECHNICAL SPECIFICATION

| Description                                                      | Value              | Standard    |
|------------------------------------------------------------------|--------------------|-------------|
| Applied spray density, kg/m <sup>3</sup>                         | 42±3               | ASTM D 1622 |
| Compressive strength, Kpa                                        | >200               | ASTM D 1621 |
| Closed cell Content, %                                           | >90                | ASTM D 6226 |
| Fire resistance                                                  | Class B3           | DIN 4102    |
| Thermal Conductivity, W/mK<br>(Initial value)                    | 0.021 - 0.024      | ASTM C 518  |
| U-Value @ 50 / 75 / 100 mm foam<br>thickness, W/m <sup>2</sup> k | 0.46 / 0.31 / 0.23 | -           |

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The technical properties above are dependent on the applied condition and proper mixing of CRESFOAM SF-40 and CRESFOAM MDI. To achieve the specified performance, the recommended process parameter must be strictly followed during the spray application.

## PACKING

220 kg steel drum.

## SHELF LIFE

Keep away from direct sunlight and store under normal warehouse conditions. Container must be tightly closed. Under recommended storage conditions shelf life of this product is 6 months from the date of manufacturing.

## STORAGE

It should be stored in tightly closed containers at temperature between 15°C and 25°C and should not be exposed to direct sunlight.

## HEALTH & SAFETY

Always use protective clothing, eye goggles and hand gloves when handling this product. Avoid contact with skin or eyes. If spilled on the skin, wash immediately with soap and plenty of water. Accidental splashes on the eyes should be immediately clean with fresh water and medical attention sought.

### Product Disclaimer:

Kanz chemical Ind. LLC products are guaranteed against defective materials and are sold subject to standard terms and condition of sale, copies of which are available on request which are reasonable. All recommendations regarding the use of product are made without guarantee since the conditions of use are beyond the company's direct control. It is the customer's responsibility to ensure each product is fit for the purpose for which they intend to use it. Furthermore the specifications and description herein cannot be used to void a contract.

\*Refer material safety data sheet (MSDS) for further information.

# CRES®FOAM MDI

Two component, spray-applied polyurethane foam system (MDI)



**CRESFOAM MDI** is a dark brown mixture of Methylene Diphenylmethane Diisocyanate(MDI) based composition containing functionality isocyanate. It is used in conjunction with polyol to produce rigid polyurethane foam.

## USES

It can be widely used in the production of rigid Polyurethane Foam insulating materials, also used in PIR foam.

## STORAGE

It should be tightly closed containers protected from moisture preferably at temperature between 20-30 °C in well ventilated areas. Minimum storage temperature should be not be below 0°C in order to avoid crystallization.

## PACKING

250 kg drum and 1000 kg IBC.

## SHELF LIFE

Keep away from direct sunlight and store under normal warehouse conditions. Container must be tightly closed. Under recommended storage conditions shelf life of this product is 6 months from the date of manufacturing.

## HEALTH & SAFETY

Always use protective clothing, eye goggles and hand gloves when handling this product. Avoid contact with skin or eyes. If spilled on the skin, wash immediately with soap and plenty of water. Accidental splashes on the eyes should be immediately clean with fresh water and medical attention sought.

## PHYSICAL PROPERTIES

| Description           | Value        | Unit  |
|-----------------------|--------------|-------|
| Appearance            | Brown Liquid | -     |
| Viscosity @25°C       | 150-300      | mPa·s |
| Density @25°C         | 1.22-1.24    | g/ml  |
| NCO Content           | 30-32.0      | wt, % |
| Acidity as Hcl        | 0.0067       | %     |
| Hydrolysable Chlorine | 0.111        | %     |

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