

# Technical Data Sheet

## ACEFOAM 1K

### DESCRIPTION

ACEFOAM 1K for top quality heat and sound insulation at buildings and houses. Provides a unique, monolithic thermal insulation application without junctures, seams and gaps. An innovative alternative to traditional building insulation methods such as polystyrene heat insulation boards, glass wool and rock wool. Single-component product used with an applicator gun. It does not contain any propellant gases which are harmful to the ozone layer.

### FEATURES & BENEFITS

- Excellent adhesion to all kind of building materials.
- Can be applied easily to uneven, hard to reach surfaces where it is not possible to use traditional insulation materials.
- Excellent thermal insulation value (0.025 W/(m.K).
- Elimination of thermal bridges.
- Elimination of the dew point.
- Yield up to 3m<sup>2</sup> with 1.5cm thickness for one layer if applied from a distance of ~40cm with normal application speed.
- No need to use mechanical fastening elements after use.
- Over paintable.

### APPLICATIONS

- Roofs, attics, facades, foundations, basements, floors, interior walls, interfloor overlappings, interior partitions, ceilings and cellars.
- Structural elements of buildings, balcony, loggia, doors, window slopes, pipes, canals and tank kind round surfaces, uneven and rough all surfaces.
- Car body and car trailers, boats, yachts, vessels and all kind of sea vehicles.

### INSTRUCTIONS

- Each can have two special plastic nozzles for spraying to the wall and ceiling. Nozzle A is for vertical surface applications and Nozzle B is for ceiling applications.
- Optimal can temperature is +20 °C.
- Application temperature is in between +5 °C and +30 °C.
- Shake the can well before use.
- Screw the can onto an applicator gun. Put the spray nozzle on the barrel until it clicks.
- Always keep the can upside down during application.

## Technical Data Sheet

### ACEFOAM 1K

- The output of the foam can be regulated with the trigger and controlled with the adjustment screw on the back side of the gun.
- Spray the foam 30-45 cm distance from the wall for vertical applications. Spray the foam 15-20 cm distance from the ceiling for horizontal applications.
- The product can be applied at any desired thickness as long as it is applied layer by layer. The thicker, the higher insulation value.
- For an effective insulation value, the recommended application thickness is 5cm and should be reached to this thickness with minimum 3 layers. It is not possible to get the ideal insulation value with 1 or 2 layers.
- The nozzles and the applicator gun should be cleaned immediately after job finishes.

#### RESTRICTIONS

- Storage above +25 °C and below +5 °C shortens shelf life.
- The can should be stored and transported in vertical position.
- The can should be kept in room temperature for at least 12 hours before the application.
- Cured foam will discolor if exposed to ultraviolet light.
- Paint or coat the cured foam for best results in outdoor applications.
- Lower temperatures decreases yield and curing time.

#### SAFETY

- Contains Diphenylmethane-4, 4'-Diisocyanate.
- Harmful by inhalation, irritating to eyes, respiratory system and skin.
- Do not breathe spray/vapor.
- Wear suitable protective clothing and gloves.
- Use only in well-ventilated areas.
- Pressurized container. Keep away from direct sunlight and do not expose temperatures over 50 °C.
- Do not pierce or burn, even after use.
- Keep away from sources of ignition, no smoking.
- Keep out of the reach of children.

#### STORAGE AND SHELF LIFE

- 12 months if stored properly.

## Technical Data Sheet

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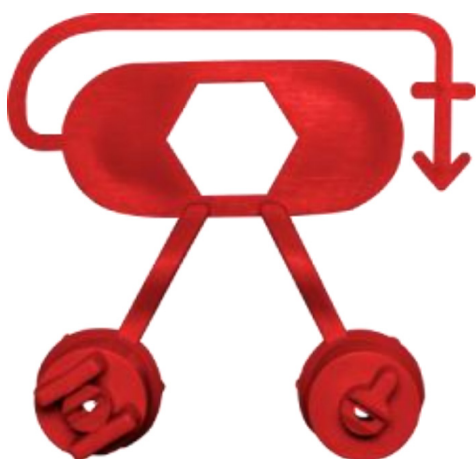
#### PACKAGING

| Product          | Weight                | Package   |
|------------------|-----------------------|-----------|
| <b>THERMCOAT</b> | <b>850ml/Gw.930gr</b> | <b>12</b> |

#### TECHNICAL PROPERTIES

|                                     |                                         |              |
|-------------------------------------|-----------------------------------------|--------------|
| <b>Basis</b>                        | : Polyurethane Prepolymer               |              |
| <b>Curing System</b>                | : Moisture cure                         |              |
| <b>Specific Gravity</b>             | : 17-28 kg/m <sup>3</sup>               | (ASTM D1622) |
| <b>Tack-Free Time</b>               | : 4 min                                 | (ASTM C1620) |
| <b>Foam Color</b>                   | : Blue                                  |              |
| <b>Yield</b>                        | : 3 m <sup>2</sup> for 1,5 cm thickness |              |
| <b>Fire Class of the Cured Foam</b> | : B3                                    | (DIN 4102-1) |
| <b>Thermal Conductivity</b>         | : 0,025 W/m.K (at 20°C)                 | (DIN 52612)  |
| <b>R Value</b>                      | : 5,66 (per inch)                       |              |
| <b>Compression Strength</b>         | : 0,03 MPa                              | (DIN 53421)  |
| <b>Full Cure</b>                    | : 24 hours                              |              |
| <b>Can Temperature</b>              | : min.5°C max. +30°C                    |              |
| <b>Temperature Resistance</b>       | : -75°C to +115°C                       |              |
| <b>Application Temperature</b>      | : +5°C to +30°C                         |              |

The results were obtained by providing optimum environmental conditions.



Picture 1: Nozzle A on the left and Nozzle B on the right.

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