

## **ADINO PUF FR IK 313** **IC STRAW GRADE (DIY) FR PU FOAM**

### **TECHNICAL DATA SHEET**

One component 240 minutes fire retardant polyurethane foam based on a moisture curing polyurethane prepolymer. The foam is manufactured in compliance with requirements of ISO 9001:2008 standard.

#### **DESCRIPTION**

ADINO PUF FR 1K 313 Adaptor Foam. The product does not contain Ozone Depleting CFC's.

#### **APPLICATIONS**

ADINO PUF FR 1K 313 is ideal for filling, sealing, bonding and insulation.

- Filling free spaces, cracks, gaps, pipe penetrations
- Sealing roof, wall and floor joints
- Sealing for window fittings
- Around cables and pipes, penetrations through walls and ceilings.
- For thermal, electrical and acoustic insulation applications

Excellent adhesion to concrete, masonry, stone, plasterwork, wood, fibre cement, metals and plastics, such as polystyrene, polyester and rigid PVC.

#### **PROPERTIES**

- Temperature resistant (between -40°C and +80°C). Short term 100°C
- Not UV-resistant.
- Can be painted or plastered

#### **PREPARATION**

- Surfaces must be dry, free of dust, grease and loose particles.
- Porous surfaces should be pre-moistened well with water. If necessary, apply a primer.
- The working surface should be sprinkle with water (with gardening sprinkler for example).
- Secure surfaces exposed to accidental foam contamination.

#### **APPLICATION INSTRUCTIONS**

- Too cold can should be brought to room temperature, e.g. by immersion in warm water with temperature up to 30°C or leaving it in room temperature for at least 24 h.
- Put on protective gloves.
- Vigorously shake the can (10-20 seconds, the valve facing down) to thoroughly mix the components.
- Screw the can onto the applicator.
- Working position of the can is "valve facing down".

#### **STRONGMAN CHEMICALS**

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- Vertical gaps should be filled with foam starting at the bottom and moving up.
- Fill the gap at about half volume because the foam expands.
- In case of sealing the open woodwork, gaps > 3 cm are not recommended. Gaps > 5 cm are unacceptable. Slots wider than 3 cm from the bottom to fill up from one wall to the other alternately forming a zigzag pattern.
- The applied foam should be sprinkle with water (with gardening sprinkler for example).
- Should application be interrupted for more than 5 minutes, the applicator nozzle with fresh foam should be cleaned with polyurethane foam cleaner and the can should be shaken prior to application.
- In case the applicator was not bent and fastened on the pin and the foam hardened on the applicator end tip, cut off the applicator end tip as this could enable reuse of the foam

### POST APPLICATION

- Immediately after full foam hardening, it should be secured against exposure to UV rays by using e.g. plaster or paints, acrylic, silicon.
- If the foam is not fully used up, after completion of work the applicator and valve should be cleaned with polyurethane foam cleaner
- Fresh foam can be removed by means of ADINO Gun & Spray Cleaner.
- Cured foam can only be removed mechanically or by means of ADINO Remover.

### REMARKS

- Doors and windows fitting without using mechanical coupling is forbidden. Lack of mechanical couplings may cause deformation of the mounted element.
- The curing process is dependent on temperature and humidity. The decrease in ambient temperature within 24 h after the application below the minimum application temperature can affect the quality and / or correctness of the seal. Hurried attempts at preliminary treatment may cause irreversible changes in foam structure and its stability and may affect deterioration of foam utility parameters.
- The foam displays lack of adhesion to polyethylene, polypropylene, polyamide, silicone and Teflon.
- Fresh foam should be removed with polyurethane foam cleaner.
- Hardened foam may only be removed mechanically (e.g. with a knife).
- Quality and technical condition of used applicator affect the parameters of final product.
- The foam should not be used in spaces without access of fresh air and poorly ventilated or in places exposed to direct sunlight.
- The manufacturer recommends using strip foam once (at one go), because in case of foam drying in the applicator, the future use may be impossible.

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#### PACKING

- 12 x 750 ml tin-plated cans.
- One pallet contains 80 boxes (960 cans)

#### SHELF LIFE

- 12 months when stored in a cool and dry place. Store can upright.

#### SAFETY

- Refer safety data sheet.
- The ideal working temperature for the can is 20°C.
- Chilled cans must be carefully warmed in luke-warm water before usage. However, the can must not be heated above +50°C, as there is a risk of bursting.
- Cans which are too hot, must be cooled in water. Do not shake the can during cooling process.

#### TECHNICAL DATA

Color	
grey	+
PARAMETER (+23°C/50% RH) <sup>1)</sup>	Value
Capacity (free foaming) [l]	40 +/- 5
Capacity in gap [l] <sup>2)</sup>	20 - 26
Secondary increase in volume (post-expansion) [%] (TM1010-2012**)	180 - 210
Density kg/cm <sup>3</sup>	12 - 14
Tack-free time [min] (TM 1014-2013)	≤ 10
Cutting time [min] (TM 1005-2013**) <sup>3)</sup>	≤ 60
Full cure time [h]	24
Tensile Strength (DIN 53430)N/mm <sup>2</sup>	7
Shear strength (DIN 53421) N/mm <sup>2</sup>	4
Elongation at tension (DIN 53430) %	25
Heat conductivity coefficient (λ) [W/m*K]	0,036
Dimensional stability [%] (TM 1004-2013)	≤ 5
Flammability class (DIN 4102) <sup>4)</sup>	B1
Flammability class (EN 13501-1+A1:2010) test method EN ISO 11925-2, EN 13823	Bs1d0
Fire resistance (EN 13501-2+A1:2008) test method EN 1366-4:2008 (minutes) <sup>5)</sup>	240

1. All given parameters are based on laboratory tests compliant with internal manufacturer's standards and strongly depend on foam hardening conditions (ca, ambient, surface temperature, quality of used equipment and skills of person applying the foam).

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- The value given for a gap with dimensions 30\*100\*35 (width \*length \*depth [mm]).
- The manufacturer recommends to commence finishing works after full hardening is completed, i.e. after 24 h. The result given for a foam strip of 3 cm diameter.
- For linear gaps with maximum width 30 mm and maximum depth 80 mm between monolithic, mineral or metal construction materials
- For gaps with width 10 mm and depth 200 and 240mm, Or with width 20 mm and depth 240mm in construction made of aerated concrete blocks (available on request)

#### TRANSPORT / STORAGE

Transport temperature	Foam transport period [days]
< -20°C	4
-19°C ÷ -10°C	7
-9°C ÷ 0°C	10

The foam maintains its usability within 12 months from manufacturing date, if it is stored in original packaging in vertical position (valve facing up) in a dry place in temperature +5°C to +30°C. Storage in temperature exceeding +30°C shortens the shelf life of the product, adversely affecting its parameters. The product may be stored in temperature -5°C, no longer however than for 7 days (excluding transport). Storage of foam cans in temperature exceeding + 50°C or in vicinity of open flame is not allowed. Storage of the product in a position other than recommended may result in jamming the valve. The can cannot be squeezed or pierced even when it is empty. Do not store the foam in the passenger compartment. Transported only in the trunk.

**Detailed transport information is included in the Material Safety Data Sheet (MSDS).**

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