

Torggler

Polyurethane Foams

COPPI

Polyurethane foam with extended open time, reduced post-expansion, and high tear resistance.



- Up to 10 m² area of laid tiles
- Waterproof
- High tear resistance
- Wind-resistant
- Long open time



APPLICATION AREAS

- Bonding of roof tiles and pantiles
- Bonding of breathable roofing membranes
- Perimeter insulation of roof windows

FEATURES

Coppi is a single-component polyurethane foam in an aerosol. Its special formula, characterised by a low level of subsequent expansion of the foam, long open times, a compact cellular structure and high resistance to tears, make it ideal for gluing roof tiles. The long open times guarantee excellent adhesion on both sides of the tile while the low level of subsequent expansion of the foam prevents undesired raising of the tiles and waste of material due to sideways seepage. The high resistance to tears guarantees excellent sealing of the assembled materials over time. The hardened foam may be cut, holed, sanded, painted and plastered. It adheres firmly to wood, concrete, tile, asbestos cement, metal, glass and various plastics with the exception of polyethylene, Teflon and silicon. It also has high resistance to water, detergents, microorganisms and chemical agents. Fire reaction class: B2 as per DIN 4102-1. The special formulation of Coppi makes it very suitable for bonding applications, but at the same time Coppi reduces its suitability for applications where more attention is paid to the speed of curing and the volume obtained. For these applications we recommend the use of Window & Door or C 2.0.

WARNINGS

The Coppi aerosol is a pressurised container. Keep away from sunlight and do not expose to temperatures above 50 °C. Do not puncture or burn even when empty. Do not spray on a naked flame or an incandescent element. Store at a distance from any source of combustion. Do not smoke. Keep out of the reach of children. . . Highly flammable. Harmful if inhaled. Contains diphenylmethane -4,4', diisocyanate (EEC no. 615-005-00-9). Can irritate the eyes, airways and skin. Can cause an allergic reaction if inhaled or if it comes into contact with the skin. Keep away from sources of ignition. Do not inhale aerosol content. In the event of contact with the eyes rinse immediately with lots of running water and consult a doctor. In the event of contact with the skin wash with lots of running water and soap. Wear suitable protective clothing and gloves. In the event of insufficient ventilation, use appropriate breathing apparatus. In the event of an accident or malaise, consult a doctor immediately (if possible, showing him the label).

INSTRUCTIONS FOR USE

1. The surfaces must be free of oil, grease and dust. If necessary wet the surface before application to guarantee that the fresh foam has the humidity required to form a uniform cellular structure.
2. Remove the aerosol protection cover and screw it to the extruder gun required (T2000 or T500 type by Torggler Srl) or, in case of manual dispenser, insert the extension nozzle to the dispenser and screw the latter to the valve.
3. Shake the aerosol for at least 15 seconds before use and repeat this operation if you stop working at any stage.
4. Turn the aerosol upside-down so that the valve is facing down, point the gun / extension nozzle as required as required and press the dispenser with your fingers. The amount of foam required to fill the cavity depends on the subsequent expansion of the foam. Under normal conditions (23 °C and 50% R.H.), the foam increases its initial volume by about 10–20%.
5. After hardening, any excess may be cut away with a knife or sanded off using sandpaper.
6. If you do not use the entire contents of an aerosol, stand it upright and press the dispenser briefly. The gas jet produced will clean the valve and the gun / extension nozzle.

Cleaning

Clean any traces of non-hardened foam (e.g. on clothing, doors, etc.) using Cleaner for polyurethane foams. Hardened foam must be removed mechanically only (e.g. scraped off or sanded).

Observations

The yield of the foam is highly dependent on the temperatures of both the aerosol and the surface. At low temperatures, both the pressure at which the fresh material comes out and the yield of hardened foam are reduced considerably. For easy extrusion of the material and a high yield, use at an aerosol temperature of 20 °C.

TECHNICAL SPECIFICATIONS

PARAMETER AND TEST METHOD	MANUAL	GUN
Color	brownish	brownish
External temperature during application	from +5 °C to +40 °C	from +5 °C to +40 °C
Operating temperature	from -40 °C to +120 °C	from -40 °C to +120 °C
Surface filming at 23°C – 50% R.H.	16 minutes	10 minutes
Cutting (curb with 20 mm diameter at 23°C – 50% R.H.)	approx. 40 min.	approx. 30 min.
Bulk density (after non-free foaming)	20 kg/m ³	15 kg/m ³
Indicative yield 45 l 45 l	30 l	40 l
Linear meters	25 meters	30 meters
Resistance to traction	12 N/cm ²	12 N/cm ²
Linear dimensional variation at 23°C and 50% R.H.	<5%	<5%
Resistance to fire (sec. DIN 4102)	B2	B2
Resistance to UV rays	poor, tends to turn yellow	poor, tends to turn yellow

Water resistance	excellent	excellent
Micro-organism resistance	excellent	excellent
Chemical agent resistance	good	good

Application	Gun application, Manual application
Packaging	can
Packaging size	12x750 ml
Pallet	42 cardboards
Color	Brick red, Brown

CONSUMPTION

According to our experience on the construction site, with one cylinder of Coppi you can obtain up to 30 linear metres of foam kerb (2 – 3 cm in diameter), with which an average of 7 to 10 m of roofing can be covered, depending on the laying techniques and elements chosen: channel/roof tiles normally require a two-layer bonding, whereas for tiles there is only one layer and therefore, for the same surface area, foam consumption will be lower.

STORAGE

Store in an upright position in a fresh area. Do NOT store in a horizontal position as this would lead to the rapid formation of encrustations beneath the valve, which would compromise the extrusion of the foam definitively. Coppi remains stable for at least 18 months if stored in an upright position in a fresh and dry area (at temperatures below 25 °C). Respect the expiry date indicated on the cylinder.

The information contained in this document is reported on the basis of our experience and knowledge; therefore, any recommendations and suggestions made are without any guarantee and must be verified before using the product by those who intend to use it, who assume all responsibility that may result from its use since the conditions of use are not under our direct control. In case of doubt, it is always advisable to make preliminary tests and/or ask for the intervention of our technicians. Torggler reserves the right to modify, replace and/or delete the items, as well as to change the product data in this document without prior notice; in this case the indications given here may no longer be valid. Always refer to the latest version of the data sheet, available at www.torggler.com. Version 21.06.2022.