ROADBOND PUR

**BITUMEN POLYURETHANE MASTIC
FOR COLD SEALING OF JOINTS AND CRACKS**

CATEGORY	CHARACTERISTICS	ENVIRONRMENTAL							METHOD OF USE
		ECO GREEN	ASBESTOS FREE	TAR FREE	CHLORINE FREE	RECYCLABLE	NON DANGEROUS WASTE	EXHAUSTED OIL FREE	HOT APPLIED (BOILER)

1 PROBLEM

HOW TO LENGTHEN THE USEFUL LIFE OF THE ROAD SURFACE AND DELAY REPAIR WORKS

Through the cracks in the road surface, due to “pumping” generated by the road traffic, rain water transports to the surface the fine parts of the layers not bound to be substrate, thus causing the gradual collapse of the road surface.
Preventive maintenance of the road lengthens its life and allows repair works to be delayed over time; the sealing of the cracks that form on the asphalt concrete paving is in particular one of the most important measures for preventing degradation.

2 SOLUTION

Out of the various types of crack repairs, cold sealing is the most practical and the fastest method.
Its application and setting speed makes it a convenient and versatile system for different uses.
ROADBOND PUR is a bitumen polyurethane mastic to be poured cold and comprises a mixture of distilled bitumen and polyurethane elastomeric polymers.
ROADBOND PUR is elastic even at low temperatures, has a high surface hardness, is resistant to heat, is not washed away by water and adheres very well to the surfaces it is applied on.
ROADBOND PUR is supplied in 15 or 4 kg tins to facilitate use according to the quantities required and can also be stored outdoors.

APPLICATION FIELDS

ROADBOND PUR is used to seal cracks more than 3 mm wide.
ROADBOND PUR is used on horizontal laying surfaces for cold sealing of cracks in road surfaces where it is possible to manually pour or use suitable sealing machinery.
ROADBOND PUR is also used to seal concrete paving joints.

METHOD OF USE

On road surfaces, before starting any pouring operations, it is necessary to carefully clean the joint or damaged area removing any foreign bodies; for long lasting sealing remove all traces of damp by heating the crack with a suitable thermal lance.
For sealing the joints of concrete slabs or for dusty surfaces, treat the crack first with the primer INDEVER PRIMER E.
ROADBOND PUR must be diluted with thinner for polyurethane products and mixed carefully with a mechanical stirrer.
The application temperature must be at least +5°C.

ADVANTAGES

- **Monocomponente**
- **Pronto all’uso**
- **Subito fuori pioggia**
- **Confezione richiudibile per riutilizzare il prodotto**
- **Elevata adesione senza promotori di adesione**
- **Applicabile su diversi tipi di supporto**
- **Applicabile senza attrezzature particolari**
- **Facile applicazione su profili complessi.**
- **Eccellente resistenza termica –40°C/+90°C.**
- **Buone proprietà meccaniche, alta resistenza alla trazione, allo strappo, all’allungamento e all’abrasione.**
- **Eccellente resistenza agli agenti chimici.**

To prevent any sticky surface problems, sprinkle the surface of the filled crack with quartz sand.
Since the mastic has a density of about 1 kg/dm³, 0.1 kg is used per metre of length to seal a crack with a cross section of 1 cm².

- **COVERAGE**

The yield is 1 kg/dm³.

• PRECAUTIONS

- **It contains a small quantity of volatile and flammable solvents; apply in well-ventilated areas and not in the presence of naked flames.**
- **Treat the surface of ROADBOND PUR with a coat of quartz sand to remove sticky areas, especially in summer time.**
- **Clean the tools and equipment first with a sheet of paper and then with solvent.**
- **Do not apply thick coats of the product.**

CARATTERISTICHE TECNICHE

	Standard	ROADBOND PUR
Appearance		Dense paste
Colour		Black
Density	EN 2811-1	1.04 ± 0.10 kg/ℓ
Brookfield viscosity - at 25°C	ISO 2431	>40 000 cP
Flash point		>50°C
Shelf life in original packaging in a dry place		12 months
Workability		
Waiting time - touch dry (*)		1 ÷ 2 hours
Waiting time - complete drying (*)		24 ÷ 48 hours
Application temperature		+5°C ÷ +35°C
Application		manual or spray
Performance characteristics	**Standard**	**Product performace**
Initial tensile bond strength - after 28 days - on concrete	EN 14891 A.6.2	≥2.0 N/mm²
Initial tensile bond strength - on bituminous membrane		50 N/cm
Cold flexibility	UNI 1109	–40°C
Watertightness	EN 14891	>250 KPa - waterproof
Ultimate elongation	NFT 46002	>600%
Ultimate tensile strength	NFT 46002	1.2 ± 0.1 MPa
QUV Accelerated Weathering Test	ASTM G53	Test passed 1 000 hours
Chemical resistance: Sodium hypochlorite 5%		No effect
Hydrolysis resistance: Potassium hydroxide 8%		No effect
Thermal stability (100 days @ 80°C)	EOTA TR011	Test passed
Max. instantaneous temperature (shock)		150°C
Thermal resistance - Operating temperature		–40°C ÷ +80°C

Test conditions: temperature 23±2°C, 50±5% R.H. and air velocity in test area <0.2 m/s. **These data may change depending on specific site conditions: temperature, ventilation, moisture and substrate absorbency.**
(*) The times indicated will be longer or shorter as the temperature drops or rises.

PACKAGING

ROADBOND PUR
15-kg Pail
4-kg Can

• FOR ANY FURTHER INFORMATION OR ADVICE ON PARTICULAR APPLICATIONS, CONTACT OUR TECHNICAL OFFICE • IN ORDER TO CORRECTLY USE OUR PRODUCTS, REFER TO INDEX TECHNICAL SPECIFICATIONS •

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