

# PRODUCT DATA SHEET

## TECHNOASFALT

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### DESCRIPTION OF THE PRODUCT

**TECHNOASFALT** is a third-generation cold bituminous conglomerate that is workable at ambient temperature. It is manufactured using SBS- and SBR-modified bitumen derived from end-of-life tyres (PFU) and plasticized with selected vegetable oils. The product consists of a carefully selected aggregate blend, including sands and first-class basaltic granules.

The binder is composed of cold-modified bitumen with elastomers, eco-friendly vegetable oils, plasticisers, and additives that keep the mixture easily workable for a period of up to 2 months after packaging. The material hardens and stabilizes solely through compaction, without the need for heating.

This specially engineered binder provides performance characteristics comparable to those of a hot bituminous conglomerate, while preserving the ease of application typical of a cold mix. **TECHNOASFALT** has a non-oily appearance and high cohesion properties, which prevent it from sticking to the tyres of passing trucks. <this significantly reduces aggregate loss and material waste.

The product remains stable within potholes and does not migrate or crumble in either winter or summer conditions. **TECHNOASFALT** contributes to environmental protection by reducing climate-altering emissions by approximately 20 kg of CO<sub>2</sub> equivalent per ton of product.

**TECHNOASFALT** does not adhere to packaging materials and does not stick to the wheels of operating or application machinery.

### FIELDS OF USE

**TECHNOASFALT** is intended for road pavement maintenance, including pothole repair, filling of holes, closure of excavations for pipeline installations, and restoration of damaged pavement sections. The product can be applied manually and/or using a roller vibrating plate, allowing for rapid intervention and the immediate elimination of hidden hazard caused by pavement irregularities. This ensures user safety, even when applied on wet substrates.

**TECHNOASFALT** offers long- term resistance to the stresses imposed by vehicular traffic on both main and secondary roads, in urban and extra-urban environments. Its durability ensures high – quality, long -lasting repairs, over time.

### SURFACE PREPARATION

Ensure that the application surfaces are clean, free from loose material, dust or brittle parts. **TECHNOASFALT** can be applied directly **and** does not require any priming layer, even on damp or wet surfaces.

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## WARNING

Do not add additives.

Do not add water or solvents.

## PRECAUTIONS

Apply at temperatures between +5°C and +35°C. For use at 0°C, open the bag and allow the material to aerate for a few minutes before application.

Always place the conglomerate in holes or cuts that provide full containment. Do not use the product to create ramps or on surfaces subject to wheel steering.

Do not apply primer and avoid dusting with sand, cement, or other materials.

Compact thoroughly using a roller vibrating plate, or pusher.

## APPLICATION

The product is ready to use. **TECHNOASFALT** has a particle size distribution of 0-8 mm and therefore requires a minimum application thickness at least 2.5 cm. For repairs exceeding 5 cm in thickness, the material must be applied in successive layers, ensuring that each layer is properly compacted using suitable equipment before applying the next one.

When applied manually, the patch should be overfilled by approximately 1-2 cm to compensate for compaction. Final hardening occurs exclusively through compression. In low-traffic areas, compaction must be carried out thoroughly using a steel roller, vibrating plate, hand tamper, or similar tools. Once compaction is complete, the repaired area can be opened to traffic immediately.

**TECHNOASFALT** is primarily intended to eliminate pavement discontinuities in order to ensure road traffic safety.

## CONSUMPTION

22-23 kg/m<sup>2</sup> per cm of compacted thickness

## PACKAGING

25 kg bags

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## STORAGE

Store the product in well-sealed bags, preferably protected from atmospheric agents. Pallets must not be overlapped. Proper handling of the packaging and pallets allows the product to remain workable for up to 24 months from the packing date.

To facilitate handling during particularly cold periods, it is recommended to store bags at temperatures close to +10°C. To improve tempering and ensure easier application, the bags should be fully opened before use to allow the product to air.

## SAFETY INSTRUCTIONS

### PRECAUTIONS

For safety information, the user must refer to the latest Safety Data Sheet (SDS), prepared in accordance with applicable regulations. The SDS contains detailed information on the physical, toxicological, and safety characteristics of the product.

### DISPOSAL AND ENVIRONMENTAL PRECAUTIONS

Do not release the product or empty containers into the environment. For detailed disposal instructions, refer to the most recent Safety Data Sheet (SDS).

## TECHNICAL FEATURES (average value)

### GRANULAR CURVE - ACCORDING TO UNI EN 12697-2 Exclusively Basaltic Aggregates

SIEVE	SIEVE OPENING (mm)	PASSING MIN. (%)	PASSING MAX. (%)
Sieve 10	10.0	100	100
Sieve 8	8.0	90	100
Sieve 4	4.0	40	70
Sieve 2	2.0	15	35
Sieve 0.5	0.5	2	15
Sieve 0.25	0.25	2	10
Sieve 0.063	0.063	2	5

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FEATURES	STANDARD	RESULTS
Binder on aggregates weight	UNI EN 12697-1	≥6,5%
Compacted medium volume weight (Marshall 75 +75 knocks)	UNI EN 12697-6	≥2,10 kg/dm <sup>3</sup>
Empty remains (Marshall 75 +75 knocks)	UNI EN 12697-8	≥10%

Note: The features stated in this specification are guaranteed and can be verified on homogenous product samples taken according to EN regulations, particularly UNI 12697-27.

The product complies with the requirements of Directive 2003/53/EC.

## PRODUCT FOR PROFESSIONAL USE ONLY

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