

DRACOBIT

PREMIX PLUGGING AGENT TO LAY SEMI-FLEXIBLE BITUMINOUS-CEMENT FLOORING

DRACOBIT® SYSTEM



DRACOBIT® is a special premixed product based on inorganic components and admixtures used to prepare superfluid, shrinkage-compensated grout. Forming the base of the DRACOBIT® system, it is used to plug the bituminous concrete layers for creating semi-flexible bituminous-cement pavement. The high chemical and mechanical resistance of the premixed product ensures the outstanding performance of flooring made with the DRACOBIT® system.



BENEFITS

- ✓ **NO JOINTS, MAXIMUM DURABILITY:** By eliminating the most common weakness causing flooring degradation, DRACOBIT® enhances surface resistance and reduces possible causes of deterioration.
- ✓ **FLEXIBLE AND STRONG:** DRACOBIT® combines the flexibility of the bituminous surface and the high mechanical resistance of the cement mortar.
- ✓ **EXCELLENT RESISTANCE TO STATIC AND DYNAMIC LOADS:** DRACOBIT® is ideal for work on large surfaces exposed to heavy traffic, dynamic stresses and aggressive environment.
- ✓ **QUICK TO LAY:** DRACOBIT® ensures very fast laying times and it is also ideal for maintenance and restoration works in not easily accessible areas.
- ✓ **ACCESSIBLE AFTER ONLY 48 HRS:** DRACOBIT® avoids inconveniences caused by an interruption of vehicular and pedestrian traffic. Indeed, after just 48 hours the flooring is open to traffic.
- ✓ **RESISTANT TO FREEZE-THAW CYCLES:** DRACOBIT® does not undergo modification even over large temperature ranges, from - 50°C to + 90°C.
- ✓ **THIN LAYER:** Thin layers from 3-6 cm allow the restoration of deteriorated existing floors.
- ✓ **EXCELLENT COST-PERFORMANCE RATIO:** Thanks to its high yield and ease of execution, DRACOBIT® is ideal for restoring existing flooring at a low cost.
- ✓ **FSOUND ABSORPTION AND ACOUSTIC COMFORT:** DRACOBIT® reduces rolling road noise thus considerably improving the acoustic comfort.



AREAS OF APPLICATION

DRACOBIT® is ideal for creating new semi-flexible bituminous-cement flooring or restoring deteriorated existing flooring of:

- ✓ Logistical Areas exposed to frequent and heavy traffic (squares, rest areas, parking lots, ports, airport runways, motorway toll-booths, cycle and pedestrian paths, etc.)
- ✓ Areas exposed to frequent washing and freeze-thaw cycles.
- ✓ Highly critical and not easily accessible areas (e.g. galleries and motorway junctions).

SUBSTRATES PREPARATION

DETERIORATED EXISTING PAVEMENT OF CONCRETE OR ASPHALT CONCRETE

- ▶ Mill the deteriorated layer of existing flooring.
- ▶ Impregnate the substrate with a bituminous primer.
- ▶ Lay an asphalt drainage mat 3 to 6 cm thick.

NEW PAVEMENT

- ▶ The prior application of a bituminous binder is sufficient in the case of new pavement.



Lay an asphalt drainage mat

APPLICATION OF THE PLUGGING AGENT

GROUT PREPARATION

Pour **DRACOBIT** in the continuous mixer and adjust the mixing water until the fluidity required for a correct saturation of the drainage mat is achieved (6 ÷ 6.4 l per 20 kg bag depending on the porosity); the mix shall be well-blended, uniformly coloured and free of lumps

HOW TO USE

- Apply **DRACOBIT** plugging agent by pumping and then laying the product on the bituminous substrate by a rubberized spatula which promotes its uniform application on the entire surface.
- The complete absorption by the substrate occurs when the **total saturation of the drainage mat** thickness is achieved, resulting in a product consumption of about 5 kg/m² per cm of thickness; it may therefore be necessary to apply more "coats" up to complete saturation.
- The pavement is accessible after just 48 hours.

CURING

In hot and/or ventilated areas it is recommended to apply the curing compound PROBETON CURING N to promote the correct curing.



Saturation of the drainage mat



Laying DRACOBIT by a rubberized spatula

PACKAGING AND STORAGE

DRACOBIT is packaged in:

- 20 kg bags

If the product is stored properly in its original packaging, indoors in a dry location, it maintains its original features for one year.



RECOMMENDATIONS FOR HOT CLIMATES

- ▶ Do not perform work during the hottest hours of the day;
- ▶ do not work at temperatures higher than 35°C.



RECOMMENDATIONS FOR COLD CLIMATES

- ▶ Do not apply at temperatures lower than 5 °C;
- ▶ start work during the hottest hours of the day.

FEATURES AND APPLICATION DATA

APPEARANCE	Powder
COLOUR	Gray
MIXING WATER	30 ÷ 32% equal to approx. 6 ÷ 6.4 l per 20 kg bag
DENSITY OF MIX	1955 kg/m ³
PACKAGING	20 kg bag
STORAGE	12 months
CONSUMPTION	4 ÷ 5 kg/m ² per mm of thickness 12 ÷ 15 kg/m ² Minimum recommended (thickness 3 cm)

Times can vary depending on the substrate temperature and thermo-hygrometric environmental conditions.

Unless otherwise specified the above values are indicative and calculated at a temperature of 23 °C and relative humidity of 65 %.

PRODUCT PERFORMANCE - 20 °C - 30% MIXING WATER

BULK VOLUME	48 hours	1910 kg/m ³
	7 days	1953 kg/m ³
	28 days	1958 kg/m ³
FLEXURAL STRENGTH	48 hours	2,6 MPa
	7 days	4,8 MPa
	28 days	5,5 MPa
COMPRESSIVE STRENGTH	48 hours	9,4 MPa
	7 days	27,1 MPa
	28 days	34,6 MPa