

DRACOBIT HD

PREMIXED PLUGGING AGENT FOR SEMI-FLEXIBLE
BITUMINOUS-CEMENT FLOORING - *DRACOBIT® SYSTEM*



DRACOBIT HD is a special premix based on inorganic components and admixtures for the preparation of superfluid, shrinkage-compensated grout. **DRACOBIT HD** is used to plug the asphalt concrete layers of semi-flexible bituminous-cement flooring. Its high chemical and mechanical strength ensure outstanding performance of all flooring made with **DRACOBIT HD** system.

BENEFITS

- ✓ **JOINTLESS AND LONG-LASTING:** floor deterioration usually starts from joints; DRACOBIT HD being jointless, it increases flooring resilience and reduces potential causes of deterioration.
- ✓ **FLEXIBLE AND RESISTANT:** DRACOBIT HD combines the flexibility of a bituminous layer with the mechanical strength of cement mortar.
- ✓ **HIGH STATIC AND DYNAMIC LOAD RESISTANCE:** DRACOBIT HD is ideal for large flooring subject to heavy traffic and exposed to dynamic stresses and aggressive environment.
- ✓ **FAST APPLICATION:** DRACOBIT HD can be applied easily and fast, making it ideal for maintenance and repair interventions in confined areas.
- ✓ **TRAFFIC AFTER ONLY 24 HOURS:** DRACOBIT HD reduces the inconvenience caused by interruption in foot and vehicular traffic, since the area can be reopened to traffic in only 24 hours.
- ✓ **RESISTANT TO FREEZE/THAW CYCLE:** DRACOBIT HD does not change even in case of temperature variations between -50°C and +90°C.
- ✓ **LOW THICKNESS:** DRACOBIT HD can be applied with a thickness of 3 to 6 cm, which makes it ideal for interventions on existing flooring.
- ✓ **EXCELLENT PRICE-PERFORMANCE RATIO:** high performance and ease of application make DRACOBIT HD suitable for repairing existing flooring at a low cost.
- ✓ **SOUNDPROOFING AND ACOUSTIC COMFORT:** DRACOBIT HD contributes to reducing rolling noise and considerably improves acoustic comfort.



USES

DRACOBIT HD is ideal for the construction of new semi-flexible bituminous-cement flooring or the repair of existing deteriorated flooring of:

- ✓ logistics areas with high traffic or heavy traffic (service areas, rest areas, parking areas, ports, airport runways, motorway toll gates, cycle and pedestrian paths etc.);
- ✓ areas subject to frequent washing and freeze-thaw cycles;
- ✓ traffic-sensitive areas with limited access - e.g. tunnels and motorway junctions.



SUPPORT PREPARATION

EXISTING DETERIORATED CONCRETE OR ASPHALT CONCRETE FLOORING

- ▶ Milling of the deteriorated layer of existing flooring.
- ▶ Impregnation of substrate with bituminous primer.
- ▶ Application of a 3-6 cm thick drainage layer.

NEW FLOORING

- ▶ In case of new flooring, you first have to apply a bituminous binder.



Application of the drainage layer

PLUGGING AGENT APPLICATION

GROUT PREPARATION

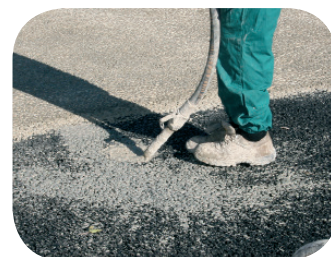
Feed **DRACOBIT HD** into the continuous mixer and add water until it becomes fluid enough to properly plug the drainage layer (5.8-6.4 l per 20kg bag depending on porosity); the mix must be smooth, free of lumps and with a uniform colour.

APPLICATION

- Pump and then apply **DRACOBIT HD** on the bituminous substrate using a rubber trowel to ensure an even application throughout the surface.
- Complete absorption by the substrate happens when the **drainage layer becomes saturated throughout its thickness**. Product consumption amounts to approx. 4-5 kg/m² per cm of thickness of plugged layer. More than one application may be needed to reach full saturation. **Remove any excess product from the surface using a squeegee to prevent the formation of a cover on the asphalt concrete layer.**
- The area can be reopened to traffic after only 24 hours.

CURING

In a warm and/or ventilated environment, it is recommended to apply PROBETON CURING N to facilitate proper curing. In the event of contact with oils or paraffin solvents, you can apply the protective and impregnating curing agent EPOCURING.



Plugging of the drainage layer



Application by rubber trowel

PACKAGING AND STORAGE

DRACOBIT HD is packed in:

- 20kg bags

If properly stored in a sheltered, dry place in its original container, the product maintains its properties for one year.



HOT WEATHER PRECAUTIONS

- ▶ Work in the mildest hours of the day.
- ▶ Do not work at ambient temperatures above 35 °C.



COLD WEATHER PRECAUTIONS

- ▶ Do not apply the product if temperature is below 5°C;.
- ▶ Start work in the warmest hours of the day.

CHARACTERISTICS AND APPLICATION SPECIFICATIONS

APPEARANCE	Powder
COLOUR	Grey
MIX WATER	29-32 % equal to approx. 5.8-6.4 l per 20kg bag
FLOW CONE - EN 445 and EN 447	< 200 seconds
DENSITY - EN 12190	2050 kg/m ³
POT LIFE	12 months
CONSUMPTION	4 - 5 kg/m ² per cm of thickness of plugged layer
PEDONABILE	18 hours
OPENING TO TRAFFIC	medium traffic: 24 hours heavy traffic at full load: 48 hours

Times vary according to the temperature of the substrate, the ambient temperature and humidity conditions.

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

PERFORMANCE CHARACTERISTICS - at +20 °C and 31% MIX WATER

ADHESION TO CONCRETE - UNI EN 13687-2	28 days	> 2MPa
MC (0.4) according to EN 1766 after test at -15°C and +30°C		
FLEXURAL STRENGTH - EN 196	24 hours	4 MPa
	3 days	6 MPa
	7 days	8 MPa
	28 days	9 MPa
COMPRESSIVE STRENGTH - EN 12190	24 hours	15 MPa
	3 days	45 MPa
	7 days	50 MPa
	28 days	65 MPa

Legal notices - SLCMP version of 01.03.2017

Draco Italiana s.p.a. has adopted the parameters indicated in this data sheet and the related standards for the calculation of the values and technical data contained herein.

Customers shall verify that this data sheet and the values indicated herein apply to their product batch and have not been superseded by later editions. If in doubt, verify that the sheet corresponds to the one available on the website www.draco-edilizia.it at the time the sales contract was executed and/or by previously contacting the Technical Department.

Any suggestions on the use of the Products provided by our personnel either orally or in writing upon the Customer's request do not constitute additional obligations to the purchase contract and do not imply a contractual obligation for the company. They are based on our experience and limited to the current state of practical and/or scientific knowledge. They are not binding for the client or for the installer. It is the Customer's responsibility to test our products and verify they are suitable for the type of application and use envisaged.