

DEGAROUTE® 485

Methacrylate resin for durable cold plastic high anti skid area markings

Description

- has been developed specially for area markings
- used without addition plasticizer.
- 1 - layer application for bike and walk ways
- 2 - layer application for heavy load roads recommended
- surface temperature can be between 10 °C - 38 °C
- long time experience
- for use in cold and warm climates

Applications

- Note: Near max. surface temperature avoid direct sun light on the material during curing.
- anti skid markings
- colored area markings for e.g. :

bikeways
bridges
hazardous points like school zones
roundabouts

Equipment

- manual application by trowel and rollers

Properties

- long pot life
- good levelling
- lasting flexibility
- colorfast

Typical properties

Property	Value	Unit	Method
Form supplied	liquid		
Flow time at 23 °C	55 - 65	s	ISO 2431, 6 mm cup
Viscosity at 23 °C	approx. 470	mPas	Brookfield DV2, sp. 2/12 rpm
Density at 20 °C	0.98	g/cm ³	DIN 51757
Refractive index n_D^{20}	1.45		DIN 51423
Color value	< 50		APHA
Flash point	10	°C	DIN 51755

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General remarks

Shelf life	at ≤ 25 °C minimum 12 months in original containers / from date of delivery
	at ≤ 30 °C minimum 6 months in original containers / from date of delivery

Typical formulations:

485 - base coat / 100:2 system / 2 mm / roll able / two layer / traffic roads

		pbw
Binder / resin	DEGAROUTE® 485	40.00
Dispersing additive	Disperbyk 167	0.2
Rheology additive	Byk D 410	0.1
Pigment	Tomatenrot G10345	5.00
Fine filler (15 µm)	Omyacarb 15GU	55.00

Properties

Viscosity at 23 °C:	between 9 - 9,5 cm	blot test for CP
Viscosity at 23 °C:	between 115 - 120	Brookfield KU-2
Viscosity at 23 °C:	approx. 20	Daniel flow gauge
Viscosity at 23 °C:	approx. 4,000 mPas	Brookfield DV2, spindle D at 30 rpm
Density:	1.48 g/cm ³	DIN 51757
Consumption:	approx. 1.5 kg/m ²	for 1 mm thickness

485 - top coat 100:2 system:

For an easier application of top coat add approx. 20 % of DEGAROUTE® 485 (pure resin), to the above mentioned formulation.

Pot life and setting time

Approved hardener: Hardener powder, as a proportion of total formulation

Temperature (°C) (surface)	Hardener (50 % DBPO) (% y weight)	Pot life (min)	Setting time (min)
10	2.0	27	48
20	2.0	11	32
30	2.0	10	20

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Recommendation

One layer structure:

Substrate: asphalt
1st layer: 1.5 kg/m² per 1 mm thickness
Broadcast aggregate: grain size 1.0 - 1.5 mm,
depending on required anti skid properties

Two layer structure:

Substrate: asphalt
1st layer: 3.0 kg/m² per 2 mm thickness
Broadcast aggregate: grain size 1.0 - 3.0 mm,
depending on required antiskid properties
2nd layer: 0.5 kg/m² per 0.3 mm thickness
Recommendation: a subsequent application by roller
(formulation as above) is strongly recommended to bind the
grains of sand and increase service life

Aggregate types

E.g. Bauxite, Cristobalite, Corundum, Quartz sand (hardness of aggregates should be related to traffic load).

Concrete primer

Application on concrete surface, only with primer (e.g. DEGADUR® B71).

Typical properties are approximate reference values. If you need product specifications please contact us.

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Product Information
25.05.2018
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