DEGADUR® 420

Middle-viscous elasticized methacrylate resin for manufacturing of 2-component floor coatings. For trowel application, self-levelling, smooth or broadcast indoor coatings on concrete and metal surfaces. For wet and dry areas.

Typical properties

Property	Value	Unit	Method
Form supplied	Slightly turbid liquid		
Viscosity at 23 °C	160 - 200	mPas	Brookfield DV2, sp. 2/60 rpm
Density at 20 °C	1.01	g/cm^3	DIN 51757
T_{max} at 23 °C	18 - 26 min / 140 - 165 °C		70.0 g DEGADUR® 420 + 1.4 g BPO 50%
Flash point	10	°C	MMA, DIN 51755

General marks

Activator	DEGADUR® 420 is preactivated for temperatures from 5 °C to 30 °C
Initiator/Hardener	BPO-Hardener (50 %), depending on temperature
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
Storage	Protect against direct sunlight. At temperatures below 15 °C the paraffin dissolved in the binder may precipitate. The material must be stirred thoroughly before use.
Packaging	Steel drum, 190 kg net
More accounts	see technical data sheet DEGADUR® 420

DEGADUR® 420

Properties

DEGADUR® 420 coatings can be highly filled and have good levelling properties.
DEGADUR® 420 is preferably used as a self levelling coating in coat thicknesses of 2 - 4 mm because of its good wetting power of fillers and pigments. Broadcast, paint-roller and trowel applied systems are also possible.

Guide formulations:
420/1 - self-leveling / smooth / pigmented or broadcast with flakes / 2 - 4 mm

30	% by wt.	DEGADUR® 420
20.5	% by wt.	fine filler 0 - 50 µm (no filler based on carbonate!)
47.5	% by wt.	quartz sand (0.06 - 0.3 mm)
2	% by wt.	pigment powder

Guide formulations:
420/2 - self-leveling coating / broadcast with coloured sand / 3 - 5 mm

26	% by wt.	DEGADUR® 420
22	% by wt.	fine filler 0 - 50 µm (no filler based on carbonate!)
51	% by wt.	quartz sand (0.06 - 0.3 mm)
1	% by wt.	pigment powder

Guide formulations:
420/3 - trowel applied coating / 4 - 6 mm

22.5	% by wt.	DEGADUR® 420
59.5	% by wt.	coloured quartz sand or quartz sand (0.7 - 1.2 mm)
18	% by wt.	coloured quartz sand or quartz sand (0.1 - 0.4 mm)

Guide formulations:
420/4 - vertical application / 0.5 - 2 mm

79	% by wt.	DEGADUR® 420
10	% by wt.	pigment powder
10	% by wt.	fine filler 0 - 50 µm (no filler based on carbonate!)
1	% by wt.	Sylothix 51

DEGADUR® 420

Application

The DEGADUR® **420/1** and **420/2** formulations are applied with a trowel or an adjustable-rake in a minimum thickness of 2 mm. For smooth surfaces a refinishing with a spiked roller is advisable.
For decorative surfaces, coloured flakes (3 - 4 mm), coloured quartz sand (coated with EP or PU resin) or Granodiorite with a size of 0.3 - 0.8 mm or 0.7 - 1.2 mm can be broadcast onto the self-levelling formulation.

The application of the DEGADUR® **420/3** mixture takes place with an adjustable-rake and is afterwards smoothed with a flexible trowel.

The total catalysed quantity of **420/4** formulation is completely poured out onto the primed substrate, distributed by means of a finely serrated (2 - 4 mm teeth) rubber blade and rolled out with a nylon-roller (12 - 14 mm pile woven).

The surface of DEGADUR® 420 coatings need a clear or pigmented DEGADUR® topcoat.

Pot life and hardening time at different temperatures::

Formulations 420/1, 420/2, 420/3, 420/4

Temperature [°C] **)	Hardener [% by wt.] *)	Pot life [min] ***)	Hardening time [min]
5 - 10	4.0	approx. 35	approx. 65
10 - 15	2.5	approx. 30	approx. 65
15 - 20	2.0	approx. 30	approx. 55
20 - 25	1.0	approx. 25	approx. 45
25 - 30	1.0	approx. 15	approx. 30
> 30	1.0	approx. 13	approx. 30

*) Quantity calculated on DEGADUR® 420.
**) Temperature statements refer to resin-, floor- and air-temperature.
***) The indication of the approximate pot life always refers to the lower temperature.

Note: All values are derived from laboratory tests. Deviations caused by environmental factors might occur.

More accounts

All formulations have to be applied on preprimed surfaces!

Before top coat is applied onto a body coat which had been scattered with flakes, it is essential to grind the surface by means of a dedicated grinding facility, e.g. soft nylpads. Subsequently all the not fixed particles must be removed. This step avoids unevenness and micro bubbles.

Use efficient air ventilation in order to provide a safe surface curing.

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

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