Acrydur® 418 (GB)

Medium-viscous, flexible methacrylic resin for producing interspersed or trowel on 2-component floor coatings on concrete and metal substrate inside buildings.
For wet and dry areas.

PLASTI CHEMIE International GmbH

Application: Acrydur® 418 is ideal for producing broadcasted or trowelled floor coatings and as floor coating with partly flakes.

Properties Coatings with Acrydur® 418 are characterized by high filling power and good self-leveling. Due to its good wetting properties for fillers and pigments, Acrydur® 418 is preferably used for the production of self-levelling coatings with layer thicknesses of 2-4 mm. Broadcasted systems, roll-on and trowel-on on systems are also possible. Thus Acrydur® 418 is a universal methacrylic resin.

Characteristic of the resin as delivered:

Property	Measuring method	Approx. Value
Viscosity at 23 °C	DIN 53 015	180-220 mPa · s
Flow time at 20°C, 4 mm cup	DIN 53 211	40-60 sec
Density D^{20}	DIN 51 757	0.91 g/cm³
Pot life at 20°C	approx. 8 min	
Curing	15-25 min at 20°C	
Form of delivery	liquid, blue	
Shelf-life	dark at < 20°C 6 months maximum	
Bundle	180 kg drums 25 kg, 10 kg pails	

Characteristic of the resin in the hardened state:

Property	Measuring method	Approx. Value
Strain at break	EN ISO 527	~89%
Tensile strengh	EN ISO 527	~10 MPa
E-modul	EN ISO 527	12 MPa
Water absorption, 4 days	DIN 53 495	0 mg
Shore-D	DIN 53 505	40-70 Units

Initiator/Hardener: Hardener powder 50W (BPO), temperature-dependent.

Storage conditions:

Store at ≤ 25°C. Protect from direct sunlight. At temperatures below + 15 °C the paraffin dissolved in the binding agent may fail. Stir the material well before application!

Plasti Chemie International GmbH
Falgardring 1
D – 08223 Falkenstein / Germany
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Internet: www.plasti-chemie.de

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Preparation:
Self-**l**evelling coating

7.5 L Acrydur® 418
7.5 L SL filler
0.22 L hardener Powder 50W (20°C)

Preparation:
Trowel-**o**n coating

7.5 L Acrydur® 418
25 kg decor filler S 1 – S12
0.22 L hardener Powder 50W (20°C)

Processing:

The Acrydur® 418 s/l Mix is applied with a tooth rake 4x4 mm and spiked before broadcasting with color quartz. The 418 TO mix is applied with a 5mm rake and then smooth with a smoothing trowel. After curing, the coating surface can be slightly sanded and then Acrydur® 522 is being applied as clear sealing in dry areas. In wet areas with varying thermal stress, Acrydur® 526 is being used after removal the excess sand.

Pot and curing times depending on temperature:

Temperatur [°C]	Hardener [Vol%]	Hardener [wt%]	Pot life [min]	Curing time [min]
+5	5.0	3.25	approx. 10	approx. 60
+10	4.0	2.6	approx. 8	approx. 50
+20	3.0	1.95	approx. 8	approx. 45
+30	2.5	1.62	approx. 6	approx. 35

- Hardener quantity calculated according to Acrydur® 418
- Temperature refers to resin, surface and air temperature.

Notice:

Apply to primed surfaces only! Good ventilation during application ensures a good curing.

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Industrial safety: Provide adequate ventilation during work. During processing, observe the regulations of the Hazardous Substances Ordinance, the instructions of the Federal State Committee for Occupational Safety and Safety Technology (LASI), and our safety data sheets.

VbF: A I

GISCODE: RMA 10

HS-Code: 3208 2010

CE

Plasti Chemie International GmbH • Falgardring 1 • 08223 Falkenstein • Germany

EN 13813, SR-B2, 0-AR0, 5-IR12

Acrydur® 418

Synthetic resins for internal uses
(Application in accordance with the newest technical information)

Reaction to fire:	E_K
Wear resistance (Abrasion Resistance):	AR 0.5
Impact resistance:	IR 12
Tensile bond strength:	B 2.0

CE-labelling

data concerning our products and devices as well as concerning our data and procedures are based on an extensive research work and an application technology experience. We obtain these results, with which we do not take over adhesion going beyond the respective single contract, in word and writing after best knowledge, reserve ourselves we however technical changes in the course of the product development. Beyond that our application technology service stands when desired for large consultation as well as for co-operation with the solution manufacturing and application technology problems for order. That does not relieve the user however to examine our data and recommendations before their use responsible for the own use. That applies - particularly for deliveries to foreign markets - also regarding the keeping of patent rights third as well as for applications and procedures, which are not expressly in writing indicated by us. The case of loss our adhesion is limited to indemnifications of same extent, as they plan our general terms of delivery and sales with lack of quality.

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