

## Riverstone® 400

Low-viscous activator for application  
as binding agent in acrylic concrete

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<b>Application:</b>	Due to its low viscosity, <b>Riverstone® 400</b> is suitable for producing polymer concrete elements and panels.																						
<b>Properties:</b>	Activator <b>Riverstone® 400</b> can be used for producing polymer concrete elements in combination with mineral fillers and colour pigments. Elements are wear-resistant, non-ageing and frost-proof. Ensure an exact compliance of the mix in order to achieve ideal wear rates.																						
<b>Features:</b>	<table><tr><td><b>Chemical basis</b></td><td>Methylmethacrylate resin with amine</td></tr><tr><td><b>Delivery form</b></td><td>clear liquid with yellowness</td></tr><tr><td><b>Odour</b></td><td>ester-like</td></tr><tr><td><b>Viscosity</b></td><td>~ 4 cP</td></tr><tr><td><b>Density</b></td><td>1 g/cm<sup>3</sup> (20°C)</td></tr><tr><td><b>Flashpoint</b></td><td>+ 10°C (MMA, DIN 51755)</td></tr><tr><td><b>Boiling point</b></td><td>+100 °C</td></tr><tr><td><b>VbF</b></td><td>AI</td></tr><tr><td><b>Cleaning</b></td><td><b>Riverstone® cleaner 100</b></td></tr><tr><td><b>Application</b></td><td>Activator for acrylic concrete</td></tr><tr><td><b>Storage</b></td><td>6 months max – dry and cool (20°C max)</td></tr></table>	<b>Chemical basis</b>	Methylmethacrylate resin with amine	<b>Delivery form</b>	clear liquid with yellowness	<b>Odour</b>	ester-like	<b>Viscosity</b>	~ 4 cP	<b>Density</b>	1 g/cm <sup>3</sup> (20°C)	<b>Flashpoint</b>	+ 10°C (MMA, DIN 51755)	<b>Boiling point</b>	+100 °C	<b>VbF</b>	AI	<b>Cleaning</b>	<b>Riverstone® cleaner 100</b>	<b>Application</b>	Activator for acrylic concrete	<b>Storage</b>	6 months max – dry and cool (20°C max)
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### Suggested formulation for panels of

#### 10 mm size:

Riverstone® 400 is being produced with a dry mix of the following fillers immediately before application:

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ca.- indications

32.0 PBW	Quartz sand no. 5, fine
27.0 PBW	Quartz sand no. 8
24.0 PBW	Quartz sand Geba, white
17.0 PBW	Quartz flour 10000
2.0 PBW	Hardener 30 PA
10.0 PBW	Riverstone® 400

Attention! Depending on application, the resin fraction may vary. Thus we recommend testing the resin fraction self-dependently!

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Premix Riverstone® 400 and the filler mix for about 5 minutes in a suitable container and then add 1-3% hardener 30 PA. The mixing time of the

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acrylic concrete with double-agitator takes about 3 minutes. Process the concrete by pouring into a prepared mould where a mould release agent has been added. Compact the acrylic concrete with a vibrating table at ~ 100 Hz (1- 3 min.) Riverstone® 400 is available clear or in standard RAL colours.

### Pot-and curing-times depending on the temperature:

Temperature(°C)	Hardener(W.-%)*	Pot life (min.)	Curing time (min.)
+ 5	4.0	~ 20	~ 60
+ 10	3.0	~ 25	~ 55
+ 20	2.0	~ 17	~ 35
+ 30	1.5	~ 14	~ 30

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\*(Quantity of hardener is calculated on the net quantity of the **activator!**)

**Hints:** Continue working only after complete curing of the previous layer!  
Remove sticky areas. Processing temperatures should be about > 22 °C in a vented room.

**Storage:** Methacrylate resins are subject to the handling regulations of highly flammable materials. MMA resins are to be stored cool, protected against direct sunlight, preferably at temperatures of 15-20 °C. During storage paraffin particles may deposit. Thoroughly stir up the material before processing! Mind the advice on our safety data sheets.

**Processing:** Please mind regional hints of your local job safety authority and the hazardous substances regulations!

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.