



## ebalta PU elastomers for concrete casting

If you find yourself in London make sure you head to Hanover Square WIS and look out for a building that features concrete which Cordek Limited moulded by using ebalta GM 965-55.

The material was used to produce flexible formers that were placed on the top edge of the steel construction to provide a detailed finish after the concrete was cast in the beams.

The GM 965 range has various hardeners allowing a Shore A of 40, 55 or 70 to be achieved. This

allows a variety of different flexible PU moulds to be produced depending upon your application. The concrete, ceramic and construction industries use this product with great success. The GM 965 range is a low viscosity system that is easy to mix and offers excellent chemical resistance. It offers all the performance criteria you would expect from a high performance elastomer.

Our UK customer Cordek Limited selected this material due to its high performance and ease of use.

### About Cordek Limited

Since their formation in 1973, Cordek Limited has become a market leader, providing technical solutions for a wide range of construction requirements. Cordek design, manufacture, and supply high-performance products to several niche areas in the Construction sector and additionally use their unique capabilities to create sets and props for the Media and Entertainment industries.

**ebalta**  
solution takes shape

# The ebalta PU Elastomers, developed for the high requirements of the mould and tool making field in the concrete and ceramic industry.

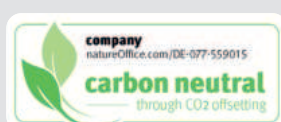
| Material  | GM 965-40 filled | GM 965-55 filled | GM 965-70 filled | GM 968 unfilled | Properties   |
|---|------------------|------------------|------------------|-----------------|--|
| Mixing ratio (p.b.w)  | 100 : 11,5       | 100 : 11         | 100 : 15         | 100 : 80        | <ul style="list-style-type: none"> <li>• high chemical resistance</li> <li>• low water absorption</li> <li>• excellent flow properties</li> <li>• good degasing</li> <li>• high dimensional stability</li> <li>• good tear propagation resistance</li> </ul> |
| <b>Processing data</b>  |                  |                  |                  |                 |  |
| Pot life 200 g / 20 °C (min.)                                       | 15 – 20          | 15 – 20          | 15 – 20          | 25 – 35         |  |
| Curing time at RT (hrs.)  | 12 – 24          | 10 – 24          | 10 – 24          | 20 – 24         |  |
| <b>Physical data</b>  |                  |                  |                  |                 |  |
| Shore hardness (Shore A)  | 43               | 55               | 70               | 55              |  |
| Tensile strength / test piece type 2 / ISO 37 (MPa)                 | 3 ± 0,5          | 3,8 ± 0,5        | 6,0 ± 0,5        | 5,0 ± 0,8       |  |
| Elongation at break / test piece type 2 / ISO 37 (%)                | 600 ± 60         | 400 ± 40         | 280 ± 50         | 1200 ± 150      |  |
| Tear resistance arch shaped test piece without incision 1 mm (kN/m) | 16 ± 2           | 18 ± 2           | 26 ± 3           | 35 ± 3          |  |

The ebalta PU elastomers were specially developed for high requirements in mould making and for the production of elastic parts in small series. Applications for polyurethane elastomers in mould making are, for example, in the tyre and concrete industries. They are also used in scen-

ery construction and for moulding artwork. ebalta PU elastomers are characterised by a high dimensional accuracy, good tear resistance, low water absorption, good flow behaviour and good self-venting.



shaping sustainable solutions.



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