Advanced Materials

Aradur[®] 3741[#]

Liquid formulated hardener

DATA SHEET

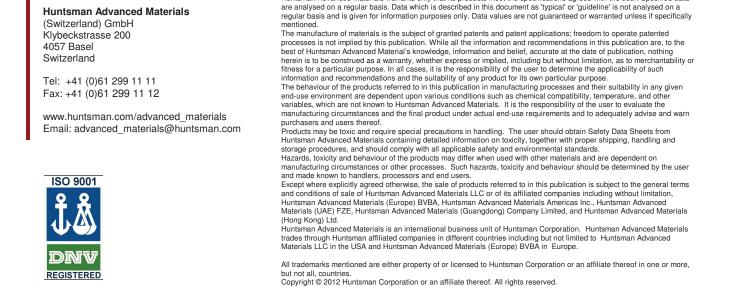
| | Polyamine | | | | | | |
|--------------|---|--|----------------------|--|--|--|--|
| Applications | The combination of the binder system Araldite [®] BY 158 / Aradur [®] 3741 with high grade mineral fillers results in epoxy concrete of outstanding dimensional stability, suitable for demanding applications such as machine bases. The best results are obtained with cure temperatures of 20 °C to 50 °C. Can be used in 2 systems for wet lay-up, infusion, adhesives. | | | | | | |
| Properties | Controlled reactivity for the production of shrink- and deformation-free large elements: | | | | | | |
| | easy processing very good wetting capability relatively low exothermic heat generation good mechanical properties and very good damping effect good chemical resistance good thermal resistance | | | | | | |
| Key data | Specified key data | | | | | | |
| | Aspect (visual) | clear liquid | | | | | |
| | Colour (Gardner, ISO 4630) | ≤1 | | | | | |
| | Amine number (ISO 9702) | 695 - 730 | [mg KOH/g] | | | | |
| | Viscosity at 25 °C (Falling-ball, ISO 12058-1) | 1 - 15 | [mPa s] | | | | |
| | Specified key data are individually checked throughout and guaranteed. | | | | | | |
| | Typical key data | | | | | | |
| | H ⁺ active equivalent weight | 39 | [g/eq] | | | | |
| | Density at 25 ℃ (ISO 1675) | 0.91 - 0.92 | [g/cm ³] | | | | |
| | Flash point (Pensky Martens, ISO 2719) | ≥ 108 | [°C] | | | | |
| | As-supplied form | liquid | | | | | |
| | Odour | yes | | | | | |
| | Shelf life (at storage temperature between 2 - 40 °C) (see expiry date on original container) | several years | | | | | |
| | Hazardous decomposition products (when disposed of in fire) | carbon monoxide, carbon dioxide, nitrogen oxides and other toxic gases and vapours | | | | | |
| | | | | | | | |

[#] In addition to the brand name product denomination may show different appendices, which allows us to differentiate between our production sites: e.g. BD = Germany, US = United States, IN = India, CI = China, etc. These appendices are in use on packaging, transport and invoicing documents. Generally the same specifications apply for all versions. Please address any additional need for clarification to the appropriate Huntsman contact.

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| Mix ratios | Components | | | | Par | ts by w | reight | |
|-----------------------|---|--|------|--------|-------|---------|-----------|--|
| | Araldite [®] BY 158 Aradur [®] 3741 | [p.b.w.] | | | | | 100 25 | |
| | <u>Gel time (Tecam, 100 ml, 20 °C, 6</u> | 5% RH) [min] | | | | | 180 | |
| | Glass transition temperature (DSC Cured 7 days at RT | s, 10 K/min) [℃] | | | | | 60 | |
| | Cured 4 days at RT + 1 day at 4 | 40 ℃ | | | | | 78 | |
| | Cured 4 days at RT + 1 day at 6 | 60 ℃ | | | | | 95 | |
| Viscosity build-up | Viscosity (ISO 12058-1) of an Ar function of time at 25 °C | aldite [®] BY 158/Aradur [®] | 3741 | mix (1 | 00:25 | p.b.w | .) as a | |
| | Time | [min] | 0 | 30 | 60 | 90 | 120 | |
| | Viscosity | [mPa s] | 130 | 160 | 210 | 290 | 400 | |
| Storage | Aradur [®] 3741 should be stored in a temperatures between 2 and 40 sunlight. | | | | | | | |
| Handling precautions | Mandatory and recommended industrial hygiene procedures should be followed whenever our products are being handled and processed. For additional information please consult the corresponding product safety data sheets. | | | | | | | |
| Note | Araldite [®] and Aradur [®] are registered trademark of Huntsman LLC or an affiliate thereof. | | | | | | | |



Huntsman Advanced Materials warrants only that its products meet the specifications agreed with the user. Specified data