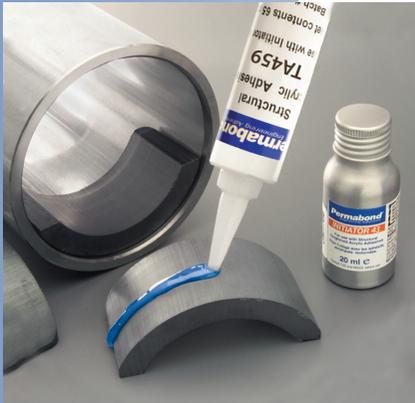


Permabond TA439, TA459, TA4592 Non-Corrosive Structural Acrylics

Bond Electric Motor Magnets with Non-corrosive Permabond Structural Adhesives



Use Permabond TA459 & Initiator 43 or Permabond TA439 & Initiator 43 for high strength durable bonds.

TA459 is blue with high viscosity
TA439 is amber with low viscosity

Wipe or spray the activator onto one surface and apply a bead of adhesive to the other. When mated, the adhesive cures in under 30 seconds.

Use Permabond TA4592, a two component external mix system to eliminate the two step process. Permabond TA4592 cures in under 30 seconds and provides exceptional strength and durability.

See TDS and MSDS for full details.



In addition to magnet bonding, Permabond Structural Acrylics are ideal for bonding all types of metal to many other substrates. Applications include:

- Glass to metal fixtures and hinges for entrance control gates and indoor glass partitions
- Metal to plastic bonding for industrial equipment

Distributor Stamp



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• Europe +44 (0) 1962 711661
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Permabond[®]
Engineering Adhesives

Non-Corrosive Structural Acrylics

Product Data

Contact *Permabond* to discuss which process is best for your assembly!



	Surface Activated		External Mix
Technical Data	Permabond TA439	Permabond TA459	Permabond TA4592
Characteristics	Surface Activated - Low viscosity	Surface Activated - High Strength	External Mix - High Strength
Appearance	Amber	Blue	Bluey-green
Initiator	43	43	Not applicable, A+B system
Set Time	10-30 seconds	15-30 seconds	<30 seconds
Shear Strength	Steel: 20-25 MPa Zinc: 12-18 MPa	Steel: 20-25 MPa Zinc: 12-18 MPa	Steel: 20-25 MPa Zinc: 15-20 MPa
Shear Strength - Ferrite to Steel	After 3 minutes: 4 MPa After 24 hours: >14 MPa (substrate failure)	After 3 minutes: 4 MPa After 24 hours: >14 MPa (substrate failure)	After 3 minutes: 4 MPa After 24 hours: >14 MPa (substrate failure)
Recommended Service Temperature	-55 to +200°C	-55 to +150°C	-55 to +120°C
Packaging Available	10 x 50ml TA439 10 x 250ml TA439 1 x 1 litre Initiator 43 1 x 20ml Initiator 43	10 x 250ml bottles 10 x 300ml cartridges 1 x 1 litre Initiator 43 1 x 20ml Initiator 43	1 x 1 litre TA4592A 1 x 1 litre TA4592B

For full technical information, please refer to the TDS (Technical Data Sheet)

Features / Benefits

<p>Excellent Adhesion</p> <ul style="list-style-type: none"> • Excellent shear & impact strength (zinc plating, steel & ferrites) • Good adhesion to aluminum, ceramics, glass & some plastics 	<p>Fast Process</p> <ul style="list-style-type: none"> • Rapid strength development • Minimises clamping time <ul style="list-style-type: none"> • No ovens • No cool down time
<p>Acid Free</p> <ul style="list-style-type: none"> • No acrylic or methacrylic acid • Non-corrosive to sensitive electronics • Ideal for enclosed motors • No IMDS disposal issues 	<p>ODC Free</p> <ul style="list-style-type: none"> • Solvent free. For the surface activated products, the monomer based initiator speeds production by eliminating drying time associated with solvent based initiators

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The information given and the recommendations made herein, are based on our experience and are believed to be accurate. No guarantee as to, or responsibility for, their accuracy can be given or accepted, however, and no statement herein is to be treated as a representation or warranty. In every case we urge and recommend that purchasers, before using any product, make their own tests to determine, to their own satisfaction, its suitability for their particular purposes under their own operating conditions.

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