

BELZONA 4351 (Magma CR5)



A static dissipative, chemical resistant coating for the protection of metal and concrete surfaces

Belzona 4351 is a high performance, two-component, static dissipative barrier coating designed to transfer surface build-up of electrostatic charge away from hazardous areas. The accumulation of static electricity is a major industry hazard, with the potential to cause fires and explosions. Therefore, it is necessary to eliminate the chances of electrostatic charge as an ignition source.

Furthermore, Belzona 4351 possesses excellent chemical resistance to a variety of chemicals found within industrial processes. This solvent-free, conductive coating isolates concrete and metal surfaces from aggressive chemicals, especially acids and alkalis. It is easy to mix and apply without the need of specialist tools and cures at room temperature.



Static dissipative and chemically resistant coating for primary and secondary chemical containment areas including bunds, drains, sumps and channels.



Static dissipative and chemically resistant coating for fuel storage tanks and hydrocarbon tanks where fluid is agitated (i.e. pumping and piping and filtration systems).



Static dissipative coating for refineries, grain silos and bio-fuel processing plants, highly susceptible to static charge accumulation in scenarios which may not involve chemical attack.



Static dissipative floor coating for factories and warehouses containing ignitable materials, in scenarios which may not involve chemical attack.

Key Benefits:

- **Static dissipative**

Once cured, the surface resistivity of Belzona 4351 measures between 10^6 - 10^7 Ohm per square, thus conforming to static dissipative coating requirements.

- **High chemical resistance**

Belzona 4351 offers chemical resistance in cases of extremely aggressive chemicals, such as alkali, amines, alcohols and concentrated mineral acids.

- **Simple to use**

The two-component coating is easy to mix and apply without the need for specialist tools.

- **Excellent adhesion**

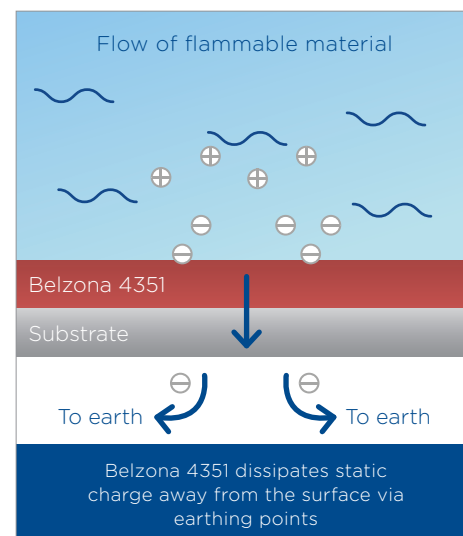
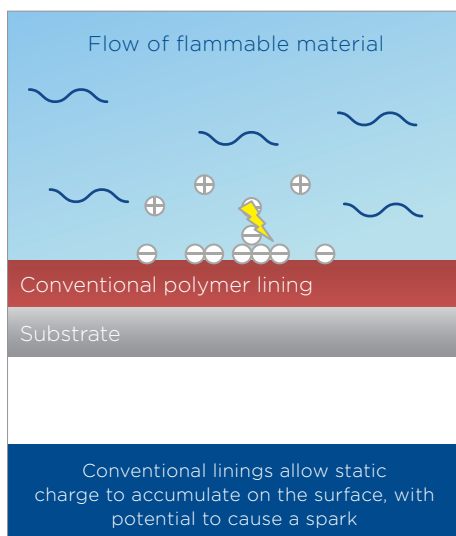
Belzona 4351 exhibits excellent adhesion to metallic, concrete and other surfaces.

- **Low VOC**

This low VOC coating can be applied in confined spaces without any damage or discomfort from fumes and will have minimal impact on the environment.

The adjacent diagram highlights the theory behind the static dissipative coating, in comparison to a conventional polymer lining. Unlike the conventional lining, Belzona 4351 is able to dissipate the static charge away from the surface via earthing points located either in the substrate itself or connected to the outside of the containment area.

Belzona 4351 works in conjunction with the mandatory safety guidelines of grounding all equipment and is not a replacement for these existing precautions.

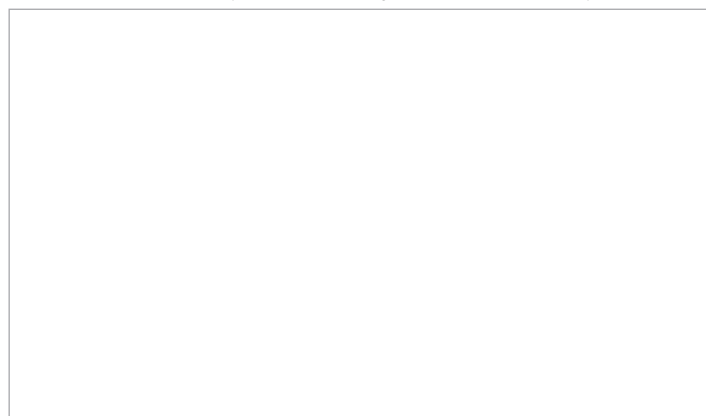


Key Technical Data:

Working life at 20°C (68°F)	20-25 minutes
Time to vehicular traffic cure at 25°C (77°F)	24 hours
Recommended coverage rate (1kg unit)	2.9 sq.m (31.2 sq.ft)
Pull off adhesion (D4541 / ISO 4624)	>3070 psi / >21.2 MPa at 20°C (68°F) cure >4890 psi / >33.7 MPa at 100°C (212°F) cure
Compressive strength (ASTM D695)	13910 psi / 95.9 MPa at 20°C (68°F) cure 16880 psi / 116.4 MPa at 100°C (212°F) cure
Temperature resistance	Designed to operate under continuous immersion at operating temperatures up to 60°C (140°F)
Surface resistivity	10 ⁶ – 10 ⁷ Ω/sq
Bonds to	Concrete, stone, brick, stainless steel, mild steel, carbon steel, copper and many more

*Please refer to Belzona 4351 Specification Sheet and Instructions of Use for the latest data and more detail.

For more information, please contact your local Belzona representative:



QUALITY PRODUCTS - TECHNICAL SUPPORT

The Belzona product range is manufactured through stringent quality and environmental control guidelines complying with the internationally recognised requirements of ISO 9001:2008 and ISO 14001:2004.

Belzona has a global distribution network of over 140 Distributors operating in 120 countries. Local support is provided by a trained Technical Consultant who will diagnose the problem, recommend the solution and provide 24 hour on-site application supervision and advice.



ISO 9001:2008
Q 09335
ISO 14001:2004
EMS 509612

Belzona products are
manufactured under an ISO
9000 Registered Quality
Management System