

The background of the entire page is a photograph of a steel structure, likely a bridge or industrial framework, that is heavily corroded with rust. The rust is a mix of brown and orange tones, contrasting with the grey of the steel. The lighting is dramatic, with strong highlights and deep shadows, emphasizing the texture of the rust. A dark blue curved shape is overlaid on the bottom left corner of the image.

revive logix

Zinc Phosphate Primer

A brief guide on corrosion and how to protect your steelworks primer

RELIABILITY REDEFINED, RESULTS DELIVERED

Unless hot dip galvanising is required due to steelwork being external, all of our steelwork is shotblasted and coated with a functional zinc phosphate primer paint, prior to being delivered to site.

During the initial consultation stage, ReviveLogix will advise the appropriate surface treatment spec. required for your structure. Although we will always consult with our preferred paint manufacturer, the below table is a good guide as to which corrosivity category your project is subject to and which primer coating your steelwork requires.

CATEGORY	ENVIRONMENT DESCRIPTION	PRIMER COATING
C1	Very low corrosion. Dry indoor environments like offices, schools, and museums.	Epoxy Zinc Phosphate - 75µm*
C2	Low corrosion. Unheated buildings with occasional condensation, such as warehouses and storage areas.	Epoxy Zinc Phosphate - 100µm*
C3	Medium corrosion. External environment - urban and industrial atmospheres with moderate sulfur dioxide pollution, coastal areas with low salinity. Internal environment could be production buildings with high humidity e.g. Brewery and food processing plants.	Epoxy Zinc Phosphate - 125µm*
C4	High corrosion. External environment - industrial areas and coastal regions with moderate salinity. Internal environment could be swimming pools, coastal boat yards and chemical plants.	Epoxy Zinc Phosphate - 100µm* + Epoxy Micaceous Iron Oxide - 100µm*

*Nominal dry film thickness

The purpose of the primer paint is to protect steelwork from corrosion. Although it is not intended to be a decorative finish, we will always make best endeavours to protect the quality of the steelworks appearance. This should be done from the time painting is complete and being loaded on to the delivery vehicle, through to handling and installation on site.

Here's just a few preventive measures to watch out for, which can be used throughout the production to install process, to reduce damage to primer paint and maximise its performance:

- ✓ Adequate curing time prior to being exposed to the elements, moved with a forklift or loaded on to delivery vehicle
- ✓ Sufficient space between steels by using suitable timber bearers when loading vehicle, to assist with offloading by forklift on site. This will help to avoid the forks scraping edges of beams
- ✓ Keep the site storage and laydown area free from mud as reasonably possible
- ✓ Double stack timber bearers or use 4"x 4" timbers to elevate steelwork off the ground, away from the dirt
- ✓ Avoid walking on the steel when its laid down, specially with muddy boots!
- ✓ Use positive lifting points for lifting steel as much as reasonably possible, to avoid wrapping chains and scuffing steel

Should primer paint need to be repaired once the structure has been installed, remember that due to batch variations and application methods, the touch up paint may well differ in apperance to the factory applied primer.

As such, areas larger than the isolated damage may need to be repainted.

If you are installing your own building and are needing to touch up some of the paintwork, dont hesitate to contact ReviveLogix and we'd be happy to offer more practical guidance on paint repairs!

**Any questions?
Please don't hesitate
to contact us.
We'd love to hear from you.**



**T: 01332 926715
E: sales@revivelogix.com
LinkedIn**