



Specification Selector

Corrosion Protection of Carbon Steel

High Durability: 15- 25 years based on ISO12944:5

MACROPOXY™ 400 Systems

Service Environment	Specification					
	No.	Decorative	Dry Film Thickness	No.	Functional	Dry Film Thickness
Heated buildings with clean atmospheres C1 – Very Low Corrosivity*	C1D*	Macropoxy™ 400 Acrolon™ 7300 - Gloss or Semi-Gloss	75 50	C1F*	Macropoxy™ 400	75
Unheated buildings where condensation may occur C2 - Low Corrosivity	C2D	Macropoxy™ 400 Acrolon™ 7300 - Gloss or Semi-Gloss	75 50	C2F**	Macropoxy™ 400	120
External Urban C3 - Medium Corrosivity	C3D**	Macropoxy™ 400 Acrolon™ 7300 - Gloss or Semi-Gloss	125 55	C3F	Macropoxy™ 400	180
Chemical or External Industrial C4 - High Corrosivity	C4D**	Macropoxy™ 400 Acrolon™ 7300 - Gloss or Semi-Gloss	190 60	C4F	Macropoxy™ 400	240
External - High Industrial / Marine C5 - Very High Corrosivity	C5D**	Macropoxy™ 400 Macropoxy™ 400 Acrolon™ 7300 - Gloss or Semi-Gloss	125 125 50	C5F	Macropoxy™ 400 Macropoxy™ 400	150 150



ISO 12944 Corrosivity Categories

*ISO 12944 does not offer systems for a C1 environment.

** Element Test Certificate Available

Contact Sherwin-Williams Technical Customer Support Team for details regarding Sherwin-Williams' ISO 12944 third-party laboratory testing programme.

This Specification is specifically subject to the disclaimer which can be found at <http://protectiveemea.sherwin-williams.com/Home/Disclaimer>

Sherwin-Williams, Tower Works, Kestor Street, Bolton, BL2 2AL, England, UK

Tel: +44 (0) 1204 556 457

Email: technicale@sherwin.com Website: www.protectiveemea.sherwin-williams.com

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Dry film thicknesses (d.f.t.) quoted are minimum nominal as defined by BS EN ISO 12944-5.

*In principle, corrosion protection is not required for corrosivity category C1. If, for aesthetic reasons, painting is necessary, a system intended for corrosivity category C2 (with a low durability) may be chosen. If unprotected steelwork destined for corrosivity category C1 is initially transported, stored temporarily or assembled in an exposed situation (for example, a C4/C5 coastal environment), corrosion will commence due to air-borne contaminants/salts and will continue even when the steelwork is moved to its final category C1 location. To avoid this problem, the steelwork should either be protected during site storage or given a suitable primer coat. The dry film thickness should be appropriate for the expected storage time and the severity of the storage environment.

Durability should be considered as the coating design life, where regular minor maintenance should be scheduled to achieve the required life to first major maintenance

Definitions of environment corrosive categories stated are according to ISO12944-2:2018.

Applicable to Macropoxy™ 400 where applied without a topcoat: All epoxy coatings will discolour and chalk progressively. Later application (site touch-up) may be noticeable.

Macropoxy™ 400 is only available in primer shades.

Acrolon Finishes are available in a full range of shades, for alternative finishes please contact Sherwin-Williams Technical Customer Support

When determining the environmental category the specifier must consider that certain structures and/or locations can produce a micro climate which is more corrosive than that of the surrounding environment. This can be the case with open sided buildings including car parks.

For maintenance and/or alternative substrate specifications, please contact Sherwin-Williams Technical Customer Support Team.

Technical Customer Support team can be contacted by email or phone: Email: technicale@sherwin.com, Phone: 01204 556 457

The information detailed in this specification selector is liable to modification from time to time in the light of experience and of normal product development, and before using, customers are advised to check with Sherwin-Williams, quoting the reference number, to ensure that they possess the latest issue.

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