



MAINCOTE™ HG-54C Acrylic Resin

Waterborne Acrylic Resin for Corrosion Resistant Primers and High Gloss Topcoats

Regional Product Availability

- Asia-Pacific

Description

MAINCOTE™ HG-54C Acrylic Resin offers excellent performance standards for acrylic waterborne maintenance paint vehicles. It facilitates the formulation of primers and gloss topcoats designed for commercial, institutional, and industrial maintenance markets. The full gloss capability, corrosion resistance, flow, hardness, and chemical resistance characteristics imparted by MAINCOTE HG-54C Acrylic Resin in a waterborne finish are typical of those associated with conventional solvent-based maintenance systems. Primer formulations offer stability with commonly used corrosion-inhibiting pigments.

Key Features

- High performance water-based acrylic resin.
- Excellent durability.
- Excellent corrosion and chemical resistance.
- Offers excellent resistance to gloss loss, fading and chalking.

Benefits

- Easy to handle within plants and on-site. Offers lower maintenance expenses and replacement costs.
- Offers a reduced need to paint as frequently.
- Offers retention of aesthetic appearance, as well as infrastructure protection.

Typical Properties

(The following properties are typical but do not constitute specifications).

Property	Typical Values
Appearance	Opaque, white to yellow liquid
Solids, by weight, %	41.5
Density, wet, (g/ml)	1.02
pH	7.5
Minimum Film Formation Temperature, ($\pm 2^{\circ}\text{C}$)	30
Viscosity (Brookfield LV #2, 60 rpm, 25°C), cps	< 500



Industrial Maintenance Applications

Corrosion resistance of a typical medium-duty industrial maintenance system based on MAINCOTE™ HG-54C Acrylic Resin is shown in Table 1 for two coats of primer, two coats of a gloss topcoat, and a two-coat primer, topcoat system. MAINCOTE HG-54C Acrylic Resin offers good chemical resistance properties as illustrated by the protection imparted by clear and pigmented finishes to metal substrates when subjected to acid exposure.

TABLE 1

Corrosion Resistance of Finishes based on MAINCOTE™ HG-54C Acrylic Resin 50 dry microns / coat, exposed 500 hours.						
		Cold Rolled Steel			Sandblasted Hot Rolled Steel	
Resistance Property	Topcoat 2 Coats	Primer 2 Coats	Primer Topcoat	Topcoat 2 Coats	Primer 2 Coats	Primer Topcoat
Salt Spray						
Un-scored Panels						
Rust	none	none	none	slight < 5%	trace < 2%	none
Blister	10 none	10 none	4 moderate	4 few	6 few	6 very few
X-scribe						
Undercutting	slight	slight	slight	sl - medium	slight	slight
Blister	4 few-mod	6 few-mod	4 moderate	5 few-mod	6 few	6 few
High Humidity						
Un-scored Panels						
Rust				none	none	None
Blister				10 none	8 few-mod	8 few
X-scribe						
Undercutting				trace	trace	slight
Blister				10 none	8 few	10 none
Blister Rating : 1 – large 6mm ; 9 – very small 0.8mm ; 10 - none						

**Handling
Precautions**

Before using this product, consult the Material Safety Data Sheet (MSDS)/Safety Data Sheet (SDS) for details on product hazards, recommended handling precautions and product storage.

Storage

Store products in tightly closed original containers at temperatures recommended on the product label.

**Disposal
Considerations**

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

**Chemical
Registration**

Many countries within the Asia-Pacific require the registration of chemicals, either imported or produced locally, prior to their commercial use. Violation of these regulations may lead to substantial penalties imposed upon the user, the importer or manufacturer, and/or cessation of supply. It is in your interests to ensure that all chemicals used by you are registered. Dow does not supply unregistered products unless permitted under limited sampling procedures as a precursor to registration.

**Note on
Asia-Pacific
Product Line**

Product availability and grades vary throughout the countries in Asia-Pacific. Please contact your local Dow Coating Materials representative for further information and samples.

**Product
Stewardship**

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

Contact:

Australia / NZ +61-3-9956-7500
South East Asia +65-6861-1077
Greater China +86-21-3851-1000
Japan +81-3-5460-2150
Korea +82-10-5265-3736
India +91-22-6602-8888

www.dow.com

NOTICE: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where Dow is represented. The claims made may not have been approved for use in all countries. Dow assumes no obligation or liability for the information in this document. References to "Dow" or the "Company" mean the Dow legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.



UNRESTRICTED – May be shared with anyone

®™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow
MAINCOTE™ HG-54C Acrylic Resin / Dow Coating Materials

883-00188-01-0521 DOW
05/2021, Rev. 2