Hydro C5

Direct-to Metal Water based Coating

CODE: 856050 REVISION: 03 DATE: 12 December 2024

GENERAL DESCRIPTION

Hydro C5 is an innovative anti-corrosive coating is designed specifically for metal substrates to provide exceptional protection against corrosion while offering unmatched adhesion, flexibility, and durability.

Utilizing a unique self-crosslinking mechanism, this acrylic dispersion coating ensures optimal performance in various environmental conditions. **Hydro C5** is classified as suitable for C5 environments according to ISO 12944-6, making it ideal for use in highly corrosive conditions such as coastal areas and industrial settings.

USES AND PROPERTIES

Hydro C5 is an anti-corrosive coating with excellent choice for a variety of applications, ensuring robust protection for metal surfaces in diverse settings. Its versatility, ease of application and superior protective qualities make it a preferred solution for professionals in various industries.

1. Topcoat for metal surfaces: - Serves as a premium topcoat that enhances the aesthetic appeal of metal surfaces while providing a durable protective layer against environmental factors.

2. Anti-corrosion coating: - Specifically formulated to protect metal substrates from corrosion caused by moisture, salts, and other corrosive agents making it ideal for industrial and marine applications.

3. Direct-to-Metal (DTM) applications: - Designed for direct application onto metal surfaces without the need for a primer, streamlining the coating process and improving efficiency.

4. Roof paint: - Functions effectively as a superior roof paint for metal roofing systems, protecting against UV degradation, weathering and rust while improving insulation and energy efficiency.

5. Industrial equipment coating: - Ideal for coating industrial equipment and machinery, providing resistance to chemicals and wear in demanding environments.

Technical Data Sheet

TECHNICAL DATA

Type	:	Acrylic dispersion
Viscosity	:	110 - 115 Ku
Density	:	1.25 ±0.05
Mass Non-Volatile Content	:	58 ±2%
Volume Solids	:	50 ±2%
VOC	:	30 grams per litre
Surface dry	:	40 - 60 minutes at 23°C
Dry Film Thickness	:	100 - 120 microns @ 5 – 7m^2/litre (2 coats)
Coverage	:	5 - 7m^2/litre
Shelf Life	:	2 years
Pack Size	:	1 litre, 5 litre, 20 litre
Colour	:	White or colours on request

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Drying profile

Substrate temperature	5°C	10°C	25°C	40°C
Surface (touch dry) (minutes)	40	30	20	15
Dried to overcoat (minimum hours)	3	2.5	2	1.5

APPLICATION

Correct surface preparation is essential for good product performance and all surfaces should be prepared as per the standard Dekro Preparation Specifications. Copies of these are available on request from Dekro Paints or can be downloaded from our website –www.dekro.co.za.
Apply the product when temperatures are between 10°C and 40°C.
After correct surface preparation, stir thoroughly and apply a minimum of 2 coats of **Hydro C5** by brush, roller or spray at the specified spread rate.
Allow to dry before overcoating as per technical data.

Application	:	Airless spray, conventional spray, brush or roller application
Application Temperature	:	>15°C
Cleaning	:	Water
Spray nozzle	:	Recommended nozzle size > 2,0 mm

SAFETY INSTRUCTIONS

Always keep out of reach of children and animals.
Wear a suitable dust mask and goggles when preparing surfaces.
Ensure good ventilation during application and drying.
If accidental contact with skin, wash immediately with soap and water or a recognised skin cleaner.
If accidental contact with eyes, rinse immediately with plenty of water and seek medical advice.
Harmful if swallowed. Seek medical attention and do not induce vomiting.

GENERAL

Different surfaces and environmental conditions require specific painting systems to produce the best possible results. It is therefore recommended that you contact a Dekro Sales representative for advice on all your painting requirements whenever possible.

PREVENTING PROBLEMS AND GENERAL INFORMATION

When applying **Hydro C5**, it is crucial to adhere to the following guidelines to guarantee optimal performance and appearance.

Ambient Conditions:

- The ambient temperature must be between 10ºC and 40ºC**.
- Humidity levels should be maintained between 10% and 85%.
- Ensure that the surface temperature is at least 3ºC above the dew point to prevent moisture from affecting the application.

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Application Thickness:
- Avoid excessive application thickness and rapid drying, as this could lead to mud cracking.

Weather Conditions:
- Do not apply under adverse weather conditions (e.g. rain, high winds, or extreme temperatures) as this may result in poor product performance.

Surface Preparation:
- Clean excessively friable surfaces thoroughly before applying the coating to ensure proper adhesion.

Touch-Ups:
- Refrain from attempting touch-ups. Instead, redo complete panels to maintain a uniform finish.

Batch Consistency:
- To ensure a consistent appearance, use containers with the same batch number. If batch numbers differ, intermix containers before use to achieve uniformity.

By following these recommendations, you can maximize the effectiveness and durability of **Hydro C5**, ensuring a high-quality finish that effectively protects metal substrates.

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CLEANING, STORAGE AND DISPOSAL

Remove as much paint as possible from application equipment and wash immediately after use with water.
Close containers tightly after use and store in a cool well-ventilated area.
Do not empty contents or wash into drains or water courses.
When disposing please follow local authorities' regulations and recycle the container after use.
Avoid storing in direct sunlight and heat.

APPLICATIONS FOR AFRICA™

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The technical data furnished is given to the best of our knowledge based on controlled laboratory tests under ideal application conditions. No guarantee of any performance characteristic is therefore given or implied and we do not hold ourselves responsible for any consequential damage of whatsoever nature that may arise from use of our products. In the event of a proven product fault our liability will be limited to the replacement of the product only. It is the user's responsibility to confirm the currency of product data sheets.