

DIMAPCHEM WATER BASED UNDERCOAT

Color: White

PROPERTIES

DIMAPCHEM Water Based Undercoat is formulated to be used as an intermediate undercoat with the ability to protect the surface from damaging and cracking risks resulting from weather conditions influence it has a lower environmental impact while maintaining its good adhesion property and protective performance. **DIMAPCHEM** Water Based Undercoat is produced for interior and exterior use in houses, industrial plants, market places, residential and commercial buildings.

RECOMMENDED USES

DIMAPCHEM Water Based Undercoat could be used for:

- ✓ Concrete walls
- ✓ Cement plaster
- ✓ Gypsum boards
- ✓ Woodworks
- ✓ Window frames

PERFORMANCE BENEFITS

- ✓ Protection from UV light and environmental conditions
- ✓ Non-toxic and non-flammable
- ✓ Alkalis and chemicals resistance
- ✓ Good adhesion
- ✓ A long lasting undercoat
- ✓ Quick drying
- ✓ Easily recoatable

CHARACTERISTIC PHYSICO-CHEMICAL DATA

Data corresponding to **DIMAPCHEM Water Based Undercoat**, white color.

Tests	Norms	Results
Total solids, by weight	ASTM D2369	50%
Consistency, at 25°C	ASTM D562	115 KU
Specific Gravity (g/cm ³)	ASTM D1475	1.2
Dry opacity; contrast ratio at 150µm (White)	-	> 0.85
Recommended WFT ⁽¹⁾ at 10% Dilution	-	115 µm
Recommended WFT ⁽¹⁾ at 20% Dilution	-	126 µm
Total Volatile Organic Compound (VOC)	ASTM D3960	25 g/L
Spreading Rate @50µm Dry Film Thickness	-	8.462 m ² /L

APPLICATIONS GUIDE

Surface Preparation

Before applying DIMAPCHEM Water Based Undercoat, all necessary pretreatment must be done. Surface should be clean, dry and free of all contaminants (oils, agents, dust, dirt, etc...) in order to avoid the risk of surface failing.

Wooden surfaces:

For previously painted wooden surface, remove paint residues using a scraper in order to avoid the flaking of the new coating in case it is not compatible with the old one. Sand and smooth the surface then clean it well and remove the sanding dust. Let the surface dry before any primer or sealer application.

For new wood, sand the surface and all the edges lightly until smoothing. Clean the substrate and let it dry then make sure that the moisture content does not exceed 10%.

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Sand until smoothing using a sanding paper with a 300 grit size in order to ensure better subsequent intercoat adhesion. Clean it well before any coating application.

Concrete surfaces:

Concrete substrate must be well prepared in order to avoid any coating defects.

For new surface, ensure that concrete is completely cured at least 30 days.

For both fresh and old concrete, decontamination is required to remove any dust, oil, grease, laitance, fatty acids or any additional contaminants. This could be done using detergent scrubbing, low pressure water cleaning, or steam.

Allow concrete substrate to dry then check the moisture and the pH of the substrate. Ensure that the pH is between 6 and 9 since alkalinity can affect and destroy paint adhesion. For the moisture content, make sure that it does not exceed 4% (by weight). Otherwise, the concrete surface is not a good candidate for painting.

Thinning

Use 10 to 15% of water when applying using a brush or roller, and 15 to 20% of water for air spraying application.

Application

DIMAPCHEM Water Based Undercoat should be applied in a well-ventilated area where the humidity does not exceed 85% and the temperature varies between 10°C and 35°C. The application must be done on a clean and dry surface using a brush.

It could be covered with **DIMAPCHEM Emulsions** or **DIMAPCHEM Decorative Paints**. For additional information concerning the application methods, follow the instructions recommended in the data sheets corresponding to the chosen **DIMAPCHEM Finishing**.

Drying Time

Surface (Touch) Dry: 30 minutes

Dry to over coat: 4 hours

Through dry: 12 hours



SHELF LIFE

DIMAPCHEM Water Based Undercoat should be stored in closed and undamaged containers in a well-ventilated area where the humidity does not exceed 75% and the temperature varies between 5°C and 40°C. The storage must be done away from direct exposure to sunlight and far away from any heating or freezing source.

Under these storage conditions, the shelf life of DIMAPCHEM Water Based Undercoat will be 18 months. After this period, the product is subjected to re-inspection. After this period, the product quality is subjected to re-inspection. Proper handling is essential to maintain good quality.

HEALTH & SAFETY

Before using this product please consult our Safety Data Sheet (SDS) for complete information on Hazards Identification, First-Aid and Fire-Fighting Measures, Accidental Release Measures, Handling and Storage, Exposure Control and Personal Protection, Stability and Reactivity, Toxicological Information, and Transport Information