ADTHANE ENAMEL

CODE: 47000 series REVISION: 03 DATE: 22 January 2025

GENERAL DESCRIPTION

Type	:	Acrylic / Polyurethane
Appearance	:	Dries to a “tile-like” finish with a mirror gloss.
Properties	:	**Adthane Enamel** has the following excellent properties – adhesion, flexibility, hardness, gloss retention, non-yellowing and durability.
Outdoor	:	It is also resistant to detergents, chemicals, solvents, lubricants, organic fuel oil and high-octane fuels.

USES

Adthane Enamel, because of its outstanding properties, can be applied to a wide variety of substrata – plaster, polyester, wood, metals and plastics, after correct priming, where outstanding performance is required. It is recommended for the following – boats, furniture, aircraft, vehicles, chemical plants and appliances.

TECHNICAL DATA

Binder Type		:	Poly Acrylate / Urethane (twin pack)
Drying Time	Surface Dry	:	2 hours at 25°C
	Hard Dry	:	8 hours at 25°C
Drying Process		:	Solvent evaporation and cross linking
Overcoating		:	6 - 8 hours @ 25°C
Viscosity		:	50 - 60KU
Specific Gravity		:	0,98 ±0,025kg/litre
Mass Non-Volatile Content		:	46% ±3%
Volume Solids (mixed)		:	40% ±3%
20° Gloss		:	>80%
Coverage		:	8 - 10m²/litre
Dry Film Thickness		:	40 microns @ 8m²/litre
Mixing Ratio		:	9 : 1 by volume
Pot Life		:	7 - 8 hours @ 23°C
Clean Equipment With		:	Adthane Thinners
Colour Range		:	White, Black, Clear
Pack Sizes		:	1 litre, 5 litre

Technical data based on catalysed **Adthane Enamel** Clear.

Coverage/spreading rate of **Adthane Enamel** depends largely on the condition and porosity of the substrate being painted and manner in which the product is applied.

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CHEMICAL RESISTANCE CHART Duration of test : 2 months

		Surface Changes	Days			Surface Changes	Days
Distilled water	23°C	None	-	Fuel Oil & 10% water	50°C	None	-
Sea water	23°C	None	-	White Spirit	23°C	None	-
Sulphuric Acid 10% & 50%	23°C	None	-	Xylol & Toluol	23°C	None	-
Hydrochloric Acid 10% & 20%	23°C	None	-	Methyl Isobutyl Ketone	23°C	Softening	-
Nitric Acid 10%	23°C	None	-	Methanol	23°C	Softening	-
Acetic Acid 10%	3°C	None	-	Formic Acid 10%	23°C	Blistering	30
Soda Sol. Saturated	5°C	None	-	Ammonia 10%	23°C	Blistering	30
Caustic Soda 20%	23°C & 50°C	None	-	Hydrogen Peroxide	23°C	Blistering	14

APPLICATION

Surface Preparation & Priming

a) ***Previously painted*** – unless the object is coated with a good quantity Nitro-cellulose, Epoxy or Polyurethane paint, it must be completely stripped to a bare surface and treated as new work. The surface to be recoated must be thoroughly sanded to a matt surface and be free of dirt, grease, etc.

b) ***New Work***

i) ***Ferrous Metal*** – wherever possible the surface must be sandblasted to achieve a completely rust-free surface and to remove millscale. It must then be treated with a coat of Dekro Twin Pack Etch Primer (mixing ratio 1:1 and recoating time 1 hour). The preparatory coat must be followed by a coat of Adprime No.1 mixing ratio 4:1 and recoating time 8 – 24 hours.

Alternatively apply one coat Adzinc to minimum DFT of 50 microns directly over newly sandblasted surface. When sandblasting is not possible the metal must be chipped, scraped or wire brushed to remove all rust, scale, etc. All grease, dirt, oil etc. must be removed and the surface must be clean and dry. Apply one coat of Dekro Twin Pack Etch Primer. Allow one hour before over-coating with Adprime No.1. Do not use Adzinc over non-blasted surfaces.

ii) ***Galvanised Iron and Aluminium*** – wash down and degrease with Dekro Galv-o-Clean. Repeat cleaning operation until the cleaning water forms a continuous film over the whole surface. Prime with Dekro Twin Pack Etch Primer and allow to dry for one hour before applying final coats. Alternate prime coat, i.e. Adprime No.1 Epoxy Primer applied to 15 - 20 microns DFT. Allow 8 hours @ 25°C before recoating.

iii) ***Wood and Timber Products*** – Sand down thoroughly and fill all imperfections. Apply one full coat of Adthane Undercoat and allow to dry. (Mixing ratio 4 : 1)

iv) ***Plaster and Cement Products*** – It is of paramount importance that these surfaces have dried properly before they are coated. Besides affecting the curing process, premature coating leads to blistering and peeling. Dust down surface to remove all loose material and make good all cracks and imperfections. Apply one coat Adthane Undercoat.

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APPLICATION (continued)

Polyester and Plastic – Wash down with detergent to remove dust, dirt, oil, etc. Roughen the surface slightly by rubbing down with fine sandpaper. Prime with one thin coat of Dekro Twin Pack Etch Primer. (Mixing ratio 1:1) or Adprime No.1 Epoxy Primer coat to 15 – 20 microns DFT. Allow 4 hours @ 25°C before recoating.

Finishing Coats –
Apply one or two coats **Adthane Enamel** allowing 6 – 24 hours between coats.

Method of Application –
Brush or Spray.
Only use Adthane Thinners with **Adthane Enamel**. NB: Do not use Lacquer Thinners since it will interfere with the curing process.

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

IMPORTANT: Walls (cement plaster, concrete or masonry) must be dry before painting and should not exceed a moisture content of 10% as measured with a Protimeter Surveymaster Moisture Meter or equal.
The ambient temperature must be between 4ºC and 40ºC and humidity between 10% and 85%.
Excessive application thickness and/or rapid drying could lead to mud cracking.
Avoid applying under adverse weather conditions as this could result in poor product performance.
Work from corner to corner, or from a natural cut off point to another.
Do not attempt touch ups, but redo complete panels.
Always keep a wet edge and avoid downing tools during the application process to prevent lap marks and variances in colour or texture.
To ensure consistent appearance ensure that the batch numbers on all containers used are the same. Where batch numbers on containers differ, intermix containers before use.

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CLEANING, STORAGE AND DISPOSAL

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

Technical Data Sheet

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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.

e-mail: info@dekro.co.za Toll Free: 0800 222 423 http://www.dekro.co.za

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