37870 KANPOLY ACR TOPCOAT DTM

PRODUCT DESCRIPTION

37870 KANPOLY ACR TOPCOAT DTM is an acrylic polyurethane resin based, two component, zinc phosphate containing, high solids, topcoat, which can also be used as a heat curing coating. **Can be applied directly to galvanized and aluminium surfaces.** Excellent adhesion and elasticity, color and gloss retention are the characteristic properties. It is resistant to broad range of corrosive and marine atmospheres. Can be applied in thick coats with low dry spray risk. Designed also for flow application method. MIOX containing version is available.

RECOMMENDED USE

It can be used as a topcoat acrylic paint in the following structures where high color and gloss resistance is required, for the open atmosphere and exposure to sunlight (UV);

- For Transformers sector;
  - Power and Distribution Transformers
  - Radiators
  - Transformers Metal Parts
- Structural steels
- Marine structures
- Industrial and port facilities
- Chemical plants and equipment
- Refineries.

It provides protection up to C3 corrosion category when used as one coat; up to C4 corrosion category, when applied with a shop primer according to ISO 12944-5 Standard.
It can also be used as a topcoat in paint systems required for C2 to C5 and CX corrosion categories, when applied with a suitable primer and midcoat according to ISO 12944-5 and 12944-9 Standards.

PRODUCT CHARACTERISTICS

Finish:
Semi-matte

Colour:
Wide range of colours

Thinner:
Kanat Thinner 0610 (Low Temp.)
Kanat Thinner 0615 (High Temp.)

Mixing Ratio (by weight)
4 parts A comp. + 1 parts B comp.

Mixed Product;

Volume Solids (%)
52±2

Density (g/ml)
1,40±0,10

Spreading Rate (m²/kg)
~6.19 (60 microns DFT)

Flash Point
39°C

VOC (Volatile Organic Content)
422 g/l

Application Methods
Airless spray, Air spray, Roller, Flow

Pot Life (20°C)
3,5 hours

DRYING SCHEDULE(*)

(60 microns/2 mils film thickness)

	Dry to Touch	Hard Dry	Dry to Over Coat Minimum
5°C	16 hours	24 hours	24 hours
15°C	6 hours	14 hours	14 hours
25°C	3,5 hours	7 hours	7 hours
35°C	2 hours	4 hours	4 hours

Drying values are valid for defined dry film thickness and below 80% preferably below 60% relative humidity. Oven dry: 45 min at 80°C Fully Cured: 7 days (20°C)
(*) Drying time depends on temperature, humidity and film thickness.

PACKAGING

One kit of **37870 KANPOLY ACR TOPCOAT DTM** is 22,5 kgs.
One pail of **37870 KANPOLY ACR TOPCOAT DTM** component A is 18 kgs,
One can of **KANPOLY HARDENER 0160** component B is 4,5

SHELF LIFE

Part A–12 months, Part B–12 months when the material is stored in a cool and dry place in unopened original containers.

HEALTH/SAFETY PRECAUTIONS

Refer to the MSDS sheet prepared according to EU directives before use.

SURFACE PREPARATION

Surfaces must be dry, clean, free of oil, grease and other foreign material.
New Steel Surfaces: Surfaces should be blasted to near-white metal surface cleanliness according to SSPC-SP10 or ISO 8501-1 Sa 2½. Surface cleanliness of St 2-St 3 according to ISO 8501-1 is sometimes allowed depending upon the conditions. Depending on ambient conditions, blasted surfaces must be primed in maximum 5 hours with **37870 KANPOLY ACR TOPCOAT DTM.**
Primed/Midcoated surfaces: Follow the overcoating times for primer and/or midcoat, if maximum recoat time is exceeded, abrade surface before top coating.The surfaces must be clean and dust free. Remove all the dust, dirt and other foreign material accumulated during the production and storage by pressurized fresh water cleaning. Topcoat is then applied to completely dry surface.
The surfaces other than steel: Contact to KANAT PAINTS & COATING Project Group for the galvanized, aluminium, plastic surfaces.
Touch up: Contact to KANAT PAINTS & COATING Project Group.

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APPLICATION PROCEDURE (Mixing Procedure)

This is a two-component paint. Do not mix more material than you plan to use within the listed pot life. Complete containers must be mixed at one time. **DO NOT MIX PARTIAL QUANTITIES FROM CONTAINERS OR PROPER COMPONENT RATIOS MAY NOT BE OBTAINED**. Prior to mixing, components A Base and B Hardener should be at room temperature (60-75° F/16-24°C). Combine 1 parts by weight of Part B Hardener with 4 parts by weight of Part A Base. Homogenize the mixture with a power mixer, add thinner if necessary and wait 10-15 minutes before use. Mixed product must be used within 3.5 hours (20°C).

MIXING RATIO (by weight)

Base: 37870 : Curing Agent 0160
4 : 1 by weight

APPLICATION CONDITIONS

For the best results;
Temperature must be more than 0°C during the application and/or the curing process.
Surface temperature: At least 3°C above dew point.
Relative humidity: 80% maximum (Preferably below 60%).
Good ventilation is required during application.

APPLICATION

Stripe coat all crevices, welds, and sharp angles. Especially for direct to metal applications. Apply paint at the recommended film thickness and spreading rate. Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance. Maximum coating interval is 6-7 days. When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle.

CLEAN UP

KANAT THINNER 0606, KANAT THINNER 0610, KANAT THINNER 0615, KANAT THINNER 0621.

APPLICATION EQUIPMENT

(The table is a guide for 20°C)

Application Equipment	Airless Spray	Conventional Spray	Roller	Flow (14-24")
Thinner maximum	%2	%7	%5	%10
Pressure minimum (bar)	170	4	_	_
Nozzle(inch)	0,009-0,013	1,4-2,0	_	_

PRECAUTIONS

- Recoating period is minimum 5-6 hours and maximum 6-7 days (20°C). Recoating interval depends on temperature, humidity and film thickness. If maximum recoating time is exceeded abrade surface, if the surface is highly contaminated apply pressurized fresh water cleaning before recoating.
- When using spray application, first apply a mist coat, then full coat after 5-15 minutes by 50% overlap with each pass of the gun to avoid holidays, bare areas and pinholes.
- Do not apply heavy coats beyond the specification otherwise solvent popping may occur.
- B component (KANPOLY HARDENER 0160) is sensitive to moisture. Always keep it closed in a dry place. Open carefully because pressure may develop in hot climates. Mixed coating is sensitive to water.
- High humidity and/or dew which is occured during application or in 12 hours (20°C) after application, can affect film formation negatively, weak adhesion, reduce pot life, softening of the film and loss of gloss can be observed.
- For direct to metal applications; before application of hard to reach areas, lining with a roller or brush shall be made.
- Due to the natural structure of acrylic paints, color change and loss of brightness can observed depending on the exposure time and heat intensity at temperatures of 120 C and above.

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