

TECHNICAL DATA SHEET OF PRODUCT: APCOFLO TC 600

Two Components, Solvent based Polyurethane Topcoat

PRODUCT DESCRIPTION

- A two pack acrylic polyol and aliphatic isocyanate based polyurethane topcoat. This paint, Can be applied on steel structures as PU topcoat as per manufacturer's recommendation.
- Resistant to exterior environment condition with good mechanical properties.
- Excellent gloss and colour retention.
- Good water, chemical and abrasion resistance.

DESIGNED USE

- As an abrasion resistant floor top coat for traffic environments such as car parks, ramps, walkways and steps. Can also be used for structural steels as a topcoat over epoxy paint.
- Can be used over epoxy systems and epoxy screeds as a final coat.

PHYSICAL DATA

VOLUME SOLIDS (Based on ASTM D2697)	48% ± 2%
TYPICAL DRY FILM THICKNESS	75 microns
WET FILM THICKNESS	156 microns (without dilution)
THEORETICAL COVERAGE	6.4 m ² /ltr. @ 75 microns DFT
COLOUR	Range
FINISH	Gloss to Semi gloss
PACK SIZE	9.9 LTR.

APPLICATION DETAILS

METHOD OF APPLICATION :

APPLICATION

The product may be applied by a roller, brush, air assisted spray gun to the required thickness. The entire mixed material should be sprayed slowly and evenly for uniform deposition. To ensure proper leveling and appearance avoid over spraying as this material is fast drying. The coverage would vary significantly based on the spraying application. This is the recommended method of application. Thinner maximum 7-10% may be added depending on the applicator's requirement.

DRYING TIME:

Ambient Temperature	Touch Dry	Hard Dry	Recoating Interval - Minimum	Recoating Interval - Maximum	Pot Life
15°C	8 Hrs	36 Hrs	24 Hrs	Indefinite	6 Hrs
25°C	5 Hrs	24 Hrs	16 Hrs	Indefinite	4 Hrs
35°C	3 Hrs	18 Hrs	12 Hrs	Indefinite	2.5 Hrs
45°C	1.5 Hrs	12 Hrs	10 Hrs	Indefinite	1.5 Hr

NO. OF COMPONENTS Two

Mixing Ratio (By Volume) As per pack size

Application Conditions Do not apply this product if the Relative Humidity exceeds 85%.

ADDITIONAL INFORMATION

Thinner / Cleaning solvent	Kadisco Acrylic Thinner
Storage Instruction	Store in a cool shaded dry area
Flash Point	Mixed less than 28°C
Shelf Life	12 months

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SURFACE PREPARATION

For Concrete Substrates -

- The performance of the coating is directly proportional to the degree of surface preparation. For Exact application methodology, please refer to manufacturer's system recommendation and related MOA.
- Ensure the surface is clean, dry and free from all contaminants and laitance.
- New concrete surfaces must be cured at least 4 weeks before application of primer.
- If any laitance found remove using wire brush/diamond disc grinding or by sweep blasting.
- Blow holes should be filled with Apcoflor Epoxy Putty before application.
- On prepared surface, One coat of Apcoflor HFP 120 to be applied at 75 microns followed by 2 coats of Apcoflor TC 510 (200-300 microns), followed by Application of Apcoflor TC 600 (50 – 100 microns in one coat) (two coats can be applied) as per the system recommendation.
- For exterior sunlight exposed areas where colour retention is required, over Apcoflor TC 510 epoxy coat or, over Apcoflor SL2, Apcoflor TC 600 can be applied at 50 – 100 microns (in one coat) depending upon the requirement (surface preparation required).
- For detailed system recommendation and application, please contact Sales Representative.

For Fresh Painting Mild Steel Structures – Sa2.5 cleaning method -

- The performance of this coating is directly related to the degree of surface preparation.
- Remove all wax, oil and grease by solvent cleaning.
- Where necessary remove weld spatter and round off all rough weld seams and sharp edges to a smooth surface.
- Remove all loose rust by wire brushing to maximum possible.
- Abrasive blast clean to minimum standard of Sa2 ½ Swedish standard SIS 05 59 00 or ISO 8501-1:1988.
- Any surface defects revealed blast cleaning should be ground, filled or treated in suitable manner.
- If required, After wire brushing, remove dust and dirt by air blowing followed by solvent wiping.
- An average surface profile of 50 microns is acceptable, but this average should not exceed 75 microns.
- After blasting remove dust from the substrate. The surface to be coated must also be clean & dry.

Solvent Cleaning:

Solvent Clean with Kadisco Acrylic Thinner to remove the organic contaminants (SSPC SP 1)

For Painted Mild Steel Structures – St2 cleaning method -

- If any trace of oil, grease and other soluble contaminant on the surface shall be completely cleaned using Kadisco Acrylic thinner.
- The existing paint need to be completely removed and also surface to be cleaned St2 (power tooling).
- Use of manual cleaning, power tools with emery Paper 80-120 grade should be used.
- For rusted areas, use power tools for complete rust removal.
- Sanding should be done all over the surrounding sound area of those rusted areas also in form of feathering to give it a continuous transitive appearance.
- After complete sanding, Clean and remove dust from the prepared surface with solvent Kadisco Acrylic Thinner and further clean with dry cloth prior to coating.
- Ensure the surface to be coated is free from grease, oil or any other incompatible products.

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- Prior to painting, if any of the below mentioned cases are found, please inform to Kadisco Asian Paints representative immediately -

Issues are - Any visible rust/corrosion, for any visible paint chip off with primer/only topcoat, exposed welding spot, visible metal joints, any other visible paint defects like blister/chalking/sagging/rundown/pinholes/micro-blisters.

Please note that – Epoxy Paints applied should not be exposed to Sunlight although chalking will occur which in turn leads to poor intercoat adhesion and coating failure will happen between Epoxy primer and PU topcoat.

Solvent Cleaning/hand/Power Tool Cleaning:

Remove bumps, runs, and drips by means of mechanical cleaning

Solvent Clean with Kadisco Acrylic Thinner to remove the organic contaminants (SSPC SP 1)

After completion of all surface preparation, need to follow the process of full system application with Kadilux Zinc Phosphate Epoxy Primer & Apcoflor TC 600 as per the above method of application.

MIXING

- A suitable power driven mixer/ stirrer is recommended for uniform mixing of the coating. Stir the base and hardener separately. Mix hardener gradually into the base under continuous stirring as per stated mixing ratio. Mix well for 5 – 6 minutes till the components become homogeneous. Apply before expiration of pot life.

PRODUCT USE RESTRICTIONS

- Generally recommended for interior/exterior use.
- Application method and higher drying temperature may affect the colour of the coating.
- This is not suitable for heavy duty environments.
- Not suitable for industrial and factory floors where high chemical and abrasion resistance are required.
- Not suitable for rising damp.
- Does not cure well below 10 Deg.C.

SAFETY PRECAUTIONS

- Avoid contact with the skin and eyes. Wear suitable protective clothing such as overalls, goggles, dust masks and gloves. Use a barrier cream.
- Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe vapor or spray.
- This product is flammable. Keep away from sources of ignition. Do not smoke. Take precautionary measures against static discharge. In case of fire – blanket flames with foam, carbon dioxide or dry chemicals
- Refer to MSDS for further information.

FIRST AID

- Eyes: In the event of accidental splashes, flush eyes with water immediately and obtain medical advice
- Skin: Wash skin thoroughly with soap and water or approved industrial cleaner.
- DO NOT USE solvent or thinners.
- Inhalation: Remove to fresh air, loosen collar and keep patient rested.
- Ingestion: In case of accidental ingestion, DO NOT INDUCE VOMITING. Obtain immediate medical attention

TECHNICAL DATA SHEET OF PRODUCT: APCOFLOR TC 600

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DISCLAIMER

The information provided on this data sheet is not intended to be complete and is provided as general advice only. It is the responsibility of the user to ensure that the product is suitable for the purpose for which he wishes to use it. As we have no control over the treatment of the product, the standard of surface preparation of the substrate, or other factors affecting the use of this product, we are not responsible for its performance nor would we accept any liability whatsoever or howsoever arising from the use of this product unless specifically agreed to in writing by us. The information contained in this data sheet may be modified by us from time to time, and without notice, in the light of our experience and continuous product development.

Version – 11/25
