

41PC601-611-621 Acrylic Aliphatic Polyurethane

PRODUCT DESCRIPTION

41PC601 is a high-performance, acrylic aliphatic polyurethane top coat formulated for thin film applications, offering general ease of handling and application. It is a two-component, solvent based, high solids urethane system which exhibits outstanding performance properties, compared to higher build, multi-coat premium systems.

41PC601 has outstanding physical properties and has proven to be extremely resistant to UV degradation, salt air environments as well as freeze thaw cycling. It is available in both clear and tinted colours. 41PC601 has excellent anti-graffiti properties.



CHARACTERISTICS

A high performance, inert topcoat system designed to overcoat virtually any surface and make it resistant to corrosion, UV breakdown, abrasion and chemical attack.

41PC601 is ideal for architectural, industrial and automotive equipment, ferrous and non-ferrous metals, masonry, timber, fibreglass and carbon fibre. It provides a high quality finish, and offers exceptional all round performance.

- Exceptional colour and gloss retention
- Flexible with outstanding impact and abrasion resistance
- VOC compliant
- Easily Applied by brush, roller or spray
- Custom colours or clear available
- Excellent “Anti-graffiti” properties



APPLICATION

Minimum of 50 microns DFT. Always allow each coat to “flash off” to a tacked state prior to a following coat.

41PC601 may also be spray applied, brushed or rolled in one coat, unreduced to the recommended DFT.

41PC601 must not be applied to surfaces at ambient temperatures above 35°C. For optimum application properties, the temperature of the material should be between 10°C and 25°C prior to mixing and application. Apply the coating only when the surface temperature is more than 5°C above the dew point temperature of the surrounding air and relative humidity is below 85%, in order to prevent moisture condensation on the surface.



MIXING & ACTIVATION

Mixing ratio: 4:1 by volume (2 parts base to 1 part activator) Activator: 41AC600

Reduction: T-102 - Slow reducer

T-100 - Fast reducer

Spray Viscosity: 21-25 seconds #2 Zahn

41PC601 is a two component coating system supplied in two separate containers. Part A is the base and Part B is the activator. Prior to activation, Base component (Part A) must be thoroughly mixed by mechanical agitation. Following agitation, with a paint stick, ensure all settled material is removed from the can bottom. After activation of Component A and Component B together, agitate for approximately 1-2 minutes. Reduce activated 41PC601 to a maximum of 15% if required with recommended reducer and use immediately. 41PC601 requires no induction period.

41PC600-610-620



POT LIFE

3 Hours @ 21°C

1 1/2 Hours @ 32°C However, these times may vary with environmental or climatic conditions

This material and its components are moisture sensitive. The product should be kept covered at all times after mixing and during application to prevent contamination and prevent moisture absorption.



CURING

Dry time @ 21°C ambient air cure

Tack free: 4-6 Hours Hard Cure: 16 hours Full Cure: 3-5 days

Elevated Curing 40°C – 60°C for 40 minutes



COLORS & FINISHES

White, Clear and a full range of colours are available including metallic and pearlescent finishes.

High Gloss - > 90 / 600

Semi-Gloss - 50-60 / 600

Mat >30 / 600



SURFACE PREPARATION

Suitable substrates for 41PC601 include ferrous metal, galvanized metal, aluminium, fibre glass, carbon fibre, concrete and wood. Good surface preparation and cleaning of all substrates to be coated is essential for optimum performance of the coating system. All surfaces to be coated should be clean, dry and free from contaminants. For old or previously finished surfaces, the degree of preparation and cleaning required, is dependent upon the condition of the substrate.

Consult your 21st Century Enviro Europe representative for recommended surface preparation procedures for your specific project.



COVERAGE

41PC601 exhibits excellent opacity and coverage when spray applied. If applying colours by means other than spray, test opacity over a small section to ensure adequate coverage prior to general application.

Solids content (+/- 2%) 75% by weight 61.67% by volume

Number of Coats 2-3 coats at 50 microns DFT

Coverage (theoretical) 19.66 m² per litre @ 25 microns 1 DFT



STORAGE & HANDLING

Hazardous Goods: Paint, Flammable Liquid, UN1263 Class III Hazchem 3YE

Shipping Information: 8.30 kg/18.25 lbs. per gallon unit including container

VOC content: 335 grams per litre

Flash Point (Seta Flash): 34°C

Storage - coatings must be stored and handled in compliance with all current local regulations applying to flammable, or highly flammable liquids. Store in cool, dry, protected storage, well ventilated, between 5°C-35°C and out of direct sunlight, moisture or rain. Maintain unmixed material in sealed containers at all times.

Shelf Life - 41PC601 has a minimum shelf life of 12 months from the date of manufacture if stored as indicated above, unopened in sealed containers. Ensure both components are consistent in appearance and thickness after stirring, and ensure that the activator (Part B) is clear and transparent before mixing the components together.

Do not use activator that is not visually clear.



NOTES

- Read each component's material safety data sheet before use. Mixed material has hazards of both components. Safety precautions must be strictly followed during storage, handling and use. Please read our health and safety data sheet



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