



PRODUCTS LIMITED

ALL-PLASTIC CLOSURES
FOR INDUSTRIAL PACKAGING



ADVANCED SOLUTIONS FOR JANITORIAL PACKAGING

APC PLASTIC PAIL CLOSURES

ADVANCED PERFORMANCE

- Patented lock ring technology for fast, positive installation on standard pail openings
- Approved by major pail manufacturers for UN Packing Groups II and III
- Patented inner "splash guard" keeps microporous gas vent dry for better performance
- Premium EVA co-polymer body resin used for better chemical resistance
- The cost effective solution to threaded cap and metal crimp ring packaging issues

REPLACE THREADED CAPS & METAL CRIMP SPOUTS

- Eliminate cap torque wrenches and thread torque relaxation
- Eliminate cap removal tools, APC closures are easy to open by hand
- Eliminate metal crimp installation tool failures, APC closures press fit and lock
- Eliminate metal crimp ring corrosion with recyclable APC plastic closures

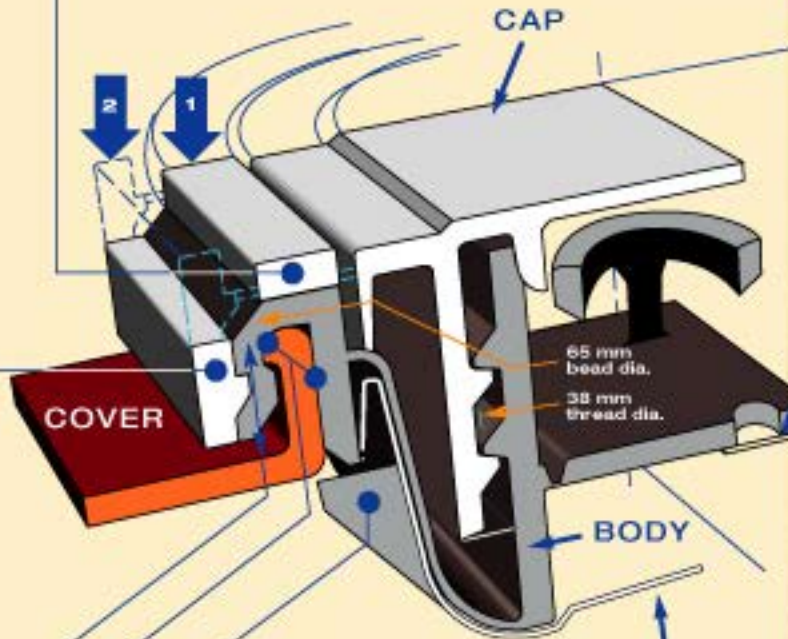
For cost effective and high performance pail closures for
your janitorial packaging requirements, please contact APC sales at:

www.pailclosures.com

Patented two position lock ring for fast, positive installation.

- 1 - Installation press first forces cover rim into channel
- 2 - Lock ring is then pushed into locking position

Heavy duty cap bails are easy to lift, even with gloves.
Flexible body resin allows spout to extend at -40°C.



OPTIONAL
MICROPOROUS
VENT

INNER
SPLASH
GUARD

Patent APC-1 inner "splash guard"
keeps microporous gas vent dry.
Smooths liquid flow when dispensing.

Body channel is molded to fit the bead tightly. Provides
for a seal up to 30 KPa for UN Packing Groups II and III
subject to performance and compatibility testing. The
plastic lock ring secures the closure in position.

APC closures have two sizes to optimize fit and performance
on standard 65 mm bead diameter cover openings:

- APC-25 for 5 mm minimum bead height
- APC-27 for 7 mm minimum bead height

Optional APC-2-AG (Anti-Glug) tabs control glugging

APC closures neck threads are 38 mm,
6 threads per inch, to fit standard pumps
and dispensers.

APC closures are molded from FDA approved
polyethylene resins. All-plastic closures are recyclable
without any metal crimp rings to remove.

ANTI
GLUG
TABS

USA patents 5,788,100 and 6,454,137 B1
Canadian patent 2,134,378
Great Britain patent 2,359,071

EXHIBIT 9-S.1 Issued 4/05 by Ron Sturk

APC-1

APC-2-AG



PRODUCTS LIMITED
Canada

Tel: (905) 457-0887 Fax: (905) 459-3983

APC Janitorial Pail Closures

Reference specification 9-2.1