The Amazing World of Coro

This document can only be hosted at holidaycoro.com

David Moore

What is "Coro"?

- Coro = Corrugated
- Corrugated plastic
- Trade name of "CoroPlast"
- Also know as Corex outside the US
- Like card board but plastic instead of paper – about 100x stonger
- straight flutes instead of waves (normally)
- Generally produced from polypropylene plastic

2012

Polypropylene Plastic

- Working Temperature range:
       -17f to +160f

- Melting point of 324f

- Not flammable until 600f

- Nearly zero water absorption

- Minimal expansion and contraction

- Resistant to most acids and chemicals

- Stiff but flexible

Common Sizes/Colors

- Most common color is white
  (semi-translucent like a milk jug)
- Second most common color is black
  no light transmission
- Other colors: "natural/clear", Red, Green, Blue, Yellow, Purple, brown, orange and more (often hard to find)
- Normal sheet sizes are:
  - 4ft x 8ft
  - 4mm (.16") thick

"Other" Coro

- Coro comes in many thicknesses – as thick as 25mm (1")
- Coro faced with other materials
  - Aluminum
  - Fabric
- Non-vertical flutes
- Other plastics (acrylic)

Benefits of Coro

- Light weight -
  only 7 pounds per 4' x 8' x 4mm sheet
- White coro is a great diffuser of light
- Designed for outdoor use (usually)
- Very strong in tension
- Ability to "grab" inserted items (such as light bulbs) without damage

Common Uses

- Hobbies
  - Airplanes
  - Holiday displays
  - Bikes (flarings)
  - Pet cages
- Signs (indoor and Outdoor)
- Construction (flooring protection, temporary walls, temporary structures)
- Shipping Containers (USPS, Food)
- Lighting and furniture

Holiday Decoration Uses

- Cutouts
- Radio signs
- Animated mini light displays
- RGB diffusers
- 3D coro

How to purchase

- Coro pricing varies by plastics cost
- 4'x8'x4mm
    - Reseller bulk cost is around $8-9 for white/black (black is usually a bit more)
    - Individual sheets are reasonable at $13-18 each for white/black
    - Colors or natural at 20-30% markup
- Post on forum for vendor contacts in your area
- Distributors – Call, no internet pricing usually
- Sign shops (high prices)

2012

Gluing Coro

- The best method is hot glue
- Allows 90 degree angle sections of coro to be glued together – 3D coro
- Recommended hot glue: Ad tech Multi-Temp
  - Holidaycoro.com/Amazon.com/Wal-Mart
- Adjustable temp hot glue guns allow you to set the working "open" time

2012

Mechanically Fastening Coro

- Coro to itself –
  - Drywall anchors
  - Zip Ties
- Coro to Wood –
  - Screws and washers
  - Staples & Nails
- Coro to poles and other
  - Zip Ties & velcro
  - Grommets (using rope/zip ties)

Painting Coro

- Try to source coro that has been corona treated – this makes it easier for paints to adhere to the coro

- Preferred – Plastic paints such as Krylon Fusion

- Can also use acrylic and water based paints

- Make sure to clean the surface with rubbing alcohol to remove oils

Tools of the trade: Krylon Fusion paints

Cutting Tools – Hand

- CoroClaw – cuts along the flutes either half way or completely thru

- Sharp Knife – It is important that your knife be sharp. We recommend using break-off knife blades

- T-Square – For making clean 90 degree cuts

CORO-CLAW™

CoroClaw Cuts

- Angles – Cutting halfway through material forms a living hinge

- Curves – Cutting one face multiple times

- Removing one side – Reduces diffusion and allows more light to pass through the coro

2012

Cutting Tools - Power

- Roto-zip
- Jig Saw
- Soldering Iron – For making holes
- Drill – For making holes

Q&A

- Uses you've found for it?
- What about RGB?