

Selection Data

GENERIC TYPE : Single package modified acrylic.

GENERAL PROPERTIES : Carboline Fluorescent 85 is pigmented with Fluorescent pigment. Carboline Fluorescent 85 can be easily applied with spray, brush or roller.

- Fast drying for quick handling.
- Excellent Fluorescent effect.
- Excellent adhesion to most generic type of coatings.

RECOMMENDED USED : Recommended for steel structure, pipes, tanks, equipment exteriors in chemical plants, offshore platforms that require safety marking.

NOT RECOMMENDED FOR : Solvent exposures of immersion service.

CHEMICAL RESISTANCE GUIDE :

| <u>Exposure</u> | <u>Splash & Spillage</u> | <u>Fumes</u> |
|-----------------|------------------------------|--------------|
| Acids | Good | Very Good |
| Alkalies | Good | Very Good |
| Solvents | Poor | Fair |
| Salt | Excellent | Excellent |
| Water | Excellent | Excellent |

TEMPERATURE RESISTANCE : Non-Immersion

Continuous : 180°F(82°C)

Non-Continuous : 200°F(92°C)

FLEXIBILITY : Very Good.

SUBSTRATES : Can be applied over most generic types. For specific recommendation consult Carboline Technical Dept.

TOPCOAT REQUIRED : Normally none

COMPATIBILITY WITH OTHER COATINGS : Most generic types, except inorganic zinc silicates, will require tie coat. To achieve best reflective properties a base coat of white is required.

Specification Data

THEORETICAL SOLIDS CONTENT OF MIXED MATERIAL

| : (Varies with color) | <u>By Volume</u> |
|--------------------------|------------------|
| Carboline Fluorescent 85 | 38% ± 2% |

RECOMMENDED DRY FILM THICKNESS PER COAT :

2 mils (50μ)

NOTE : Light colors may require two coats to provide uniform hiding, especially over dark surfaces.

THEORETICAL COVERAGE PER MIXED GALLON :

610 Mil sq. ft (15.2 sq. m/l @ 25μ)

305 sq. ft at 2 mils (7.6 sq. m/l @ 50μ)

NOTE : Material losses during mixing and application will vary and must be taken into consideration when estimating job requirements.

SHELF LIFE : 24 months minimum

COLORS : White, Greenish yellow, Orange & Red.

Fluorescent pigment is not good weather resistant pigment. Some discoloration may be occurred in outside exposure.

GLOSS : Fluorescent

Ordering Information

Prices may be obtained from your local Carboline sales representative or Carboline customer service representative.

APPROXIMATE SHIPPING WEIGHT :

| | <u>1's</u> | <u>5's</u> |
|--------------------------|-----------------|------------------|
| Carboline Fluorescent 85 | 12 lbs.(4.5 kg) | 51 lbs.(23.2 kg) |
| Carboline Thinner #25 | 9 lbs.(4.1 kg) | 45 lbs.(20.4 kg) |

FLASH POINT : (Setaflash)

| | |
|--------------------------|------------|
| Carboline Fluorescent 85 | 62°F(17°C) |
| Carboline Thinner #25 | 77°F(25°C) |

Carboline® Fluorescent 85

SURFACE PREPARATION : Remove any oil or grease from surface to be coated with clean rags soaked in Carboline Thinner #2 or toluol in accordance with SSPC SP-1.

Steel : Apply over clean, dry recommended primers and under coat white.

Mixing : Power mix to a smooth consistency before thinning. Thin up to 20% by volume with Carboline Thinner #25.

APPLICATION TEMPERATURES :

| | <u>Material</u> | <u>Surfaces</u> |
|---------|------------------|------------------|
| Normal | 60-90°F(16-32°C) | 65-90°F(18-32°C) |
| Minimum | 40°F(4°C) | 40°F(4°C) |
| Maximum | 100°F(38°C) | 165°F(74°C) |

| | <u>Ambient</u> | <u>Humidity</u> |
|---------|------------------|-----------------|
| Normal | 60-90°F(13-32°C) | 10-85% |
| Minimum | 40°F(4°C) | 0% |
| Maximum | 120°F(49°C) | 95% |

Do not apply when the surface temperature is less than 5°F(3°C) above the dew point.

Special thinning and application techniques may be required above or below normal conditions.

SPRAY : Use sufficient air volume for correct operation of equipment.

Use a 50% overlap with each pass of the gun.

On irregular surfaces, coat the edges first, making an extra pass later.

NOTE : The following equipment has been found suitable, however, equivalent equipment may be substituted.

CONVENTIONAL : Use a 3/8" I.D. minimum I.D. material hose. Hold gun approximately 12-14" from the surface and at a right angle to the surface.

| <u>Mfg. & Gun</u> | <u>Fluid Tip</u> | <u>Air Cap</u> |
|-----------------------|------------------|----------------|
| Binks #18 or #62 | 63B | 63PB |
| Devilbiss P-MBC & JGA | FX | 704 |

AIRLESS : Use a 3/8" minimum I.D. material hose. Hold gun approximately 18-20 inches from the surface and at right angle to the surface.

| <u>Mfg. & Gun</u> | <u>Pump</u> |
|-----------------------|--------------------------------|
| Binks Model 700 | Mercury 5C |
| Graco 205-591 | President 30:1 or Bulldog 30:1 |
| Devilbiss JGB-507 | OFA-514 |

* Teflon packings are recommended and are available from manufacturer.

Use a 0.013"-0.015" tip with 1500-1,700 psi.

BRUSH OR ROLLER : Recommended for small areas or touchup. Apply with full brush using short strokes and avoid rebrushing. Use short nap roller. Avoid whipping air into material.

DRYING TIMES :

| | <u>Between Coats or</u> | |
|--------------------|-------------------------|-------------------|
| <u>Temperature</u> | <u>To Handle</u> | <u>Final Cure</u> |
| 40°F(4°C) | 24 H | 48 H |
| 60°F(16°C) | 8 H | 16 H |
| 75°F(24°C) | 4 H | 8 H |
| 90°F(32°C) | 2 H | 4 H |

CLEAN UP : Use Thinner #2 or Ketones.

STORAGE CONDITIONS :

Temperature : 40~110°F (4~43°C)

Humidity : 0~100%

CAUTION: CONTAINS FLAMMABLE SOLVENTS. KEEP AWAY FROM SPARKS AND OPEN FLAMES. IN CONFINED AREAS WORKMEN MUST WEAR FRESH AIRLINE RESPIRATORS. HYPERSENSITIVE PERSONS SHOULD WEAR GLOVES OR USE PROTECTIVE CREAM. ALL ELECTRIC EQUIPMENT AND INSTALLATIONS SHOULD BE MADE AND GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. IN AREAS WHERE EXPLOSION HAZARDS EXIST. WORKMEN SHOULD BE REQUIRED TO USE NONFERROUS TOOLS AND TO WEAR CONDUCTIVE AND NONSPARKING SHOES.

