



# EXTERIOR ACRYLIC FLAT ENAMEL

RAF - Series

DESCRIPTION	CHARACTERISTICS
<p>A high performance finish coating based on blend of solvent borne acrylic resins. The coating is designed to protect masonry and steel structures exposed to harsh marine environment. It will resist the effects of sunlight, saltwater, and industrial atmosphere's laden with alkaline and acidic fumes. Exterior acrylic flat enamel is recoatable (without priming or blasting) through out it's life and it is a true anti-carbonation coating for reinforced concrete that will also allow rising damp to pass as water vapour preserving the integrity of the concrete and plaster. It provides protection against intrusion of chloride and sulfide salts.</p>	<p><b>Color:</b> Wide range of colors available  <b>Finish:</b> Flat  <b>Volume Solid:</b> 40 ± 1 %  <b>Specific Gravity:</b> 1.29 KGs / ltr 2%  <b>Recommended DFT:</b> 25 Microns  <b>Spreading Rate@DFT:</b> 16 m<sup>2</sup> / ltr or 60.56 m<sup>2</sup> / US gallon  <b>Flash Point:</b> 40 °C  <b>Drying Schedule:</b> <b>Dry to Touch:</b> 1 Hour  <b>@ 25 °C/R.H.50%</b> <b>To Handle:</b> 4 Hours  <b>To Recoat:</b> 4 Hours</p> <p><b>Shelf Life:</b> 18 months, unopened at 25° C  <b>Reducer/Clean Up:</b> Thinner YTF- K003</p>
RECOMMENDED USES	ANTI-CARBONATION PROPERTIES
<p>For use over prepared steel, aluminum, galvanized metal and concrete substrates which are affected by rising damp. Used for reinforced steel bridges, container coating, port and harbor facilities tank farms, and chemical and petrochemical plants.</p> <p><b>Advantages:</b></p> <ol style="list-style-type: none"> <li>1. Resistant to extreme humidity, heat, sunlight and alkalinity.</li> <li>2. Totally recoatable without blasting, which is essential to be applied on ships, bridges, and large buildings where blasting is not part of regular maintenance paintings.</li> <li>3. It is a vapour permeable membrane that is water resistant, it will allow water vapour to pass harmlessly preventing damage to concrete and plaster. Trapping water vapour can cause structural damage.</li> <li>4. Lifetime of reinforced concrete is prolonged by using Exterior Acrylic Flat Enamel.</li> <li>5. Anti carbonation Exterior Acrylic Flat Enamel will prevent carbon dioxide from neutralizing the natural alkalinity of concrete. Alkaline concrete will preserve steel reinforcing; carbon dioxide affected concrete will allow steel reinforcing to corrode rapidly.</li> <li>6. Anti Static coating, does not attract dust.</li> </ol>	<p>Concrete equivalent thickness: 1.0 meter at 120 Microns DFT.</p> <p><b>Note:</b></p> <ol style="list-style-type: none"> <li>1. 120 Microns DFT of Exterior Acrylic Flat Enamel is equal to using an additional meter of concrete to protect the steel reinforcing. Thus it is more practical and coast effective to apply exterior acrylic flat enamel.</li> <li>2. If 100 Microns DFT of Exterior Acrylic Flat Enamel is applied water repellency is 98%.</li> <li>3. If 100 Microns DFT of Exterior Acrylic Flat Enamel is applied carbon dioxide diffusion resistance is 6000 Gpa.s. m<sup>2</sup> / KG.</li> </ol>

## SYSTEM RECOMMENDATION

### Iron and Steel:

Anti Rust Metal Primer <u>or</u>	1 Coat	30 - 50 Microns DFT
Zinc Clad 7 Primer (Epoxy Primer)	1 Coat	50 - 100 Microns DFT
Exterior Acrylic Flat Enamel	2 Coats	25 Microns DFT per coat

### Iron and Steel (60 – 90 Minutes Fire Resistance):

Anti Rust Metal Primer	1 Coat	50 Microns DFT
Intumescent Coating (S) <u>or</u>	2 or 3 Coats	200 Microns DFT per coat
Intumescent Coating SAF 707 (W)	2 or 3 Coats	200 Microns DFT per coat
Exterior Acrylic Flat Enamel	2 Coats	25 Microns DFT per coat

### Aluminum and Galvanized Metal:

Wash Primer Green	1 Coat	07 Microns DFT
TileClad II Hi-Build Epoxy Primer	1 Coat	50 – 75 Microns DFT per coat
Exterior Acrylic Flat Enamel	2 Coats	25 Microns DFT per coat

### Concrete/Plaster/Wood/MDF Board Surface (Texture Finish):

Recommended Primers	1 Coat	As Recommended
Textured Finish	1 Coat	150 – 250 Microns DFT per coat
Exterior Acrylic Flat Enamel	2 Coats	25 Microns DFT per coat

### Concrete/Plaster/Wood/MDF Board Surface (Smooth Finish):

Recommended Primers	1 Coat	As Recommended
Heavy Duty Block Filler	1 Coat	250 Microns DFT per coat
Recommended Primers	1 Coat	As Recommended
Exterior Acrylic Flat Enamel	2 Coats	25 Microns DFT per coat

### Primers Recommended:

- Acrylic Primer Sealer (S) or (W)
- Latex Wall Primer
- Wall & Wood Primer

## APPLICATION PROCEDURES

### Surface Preparation:

Surface must be dry, clean and sound condition. Remove oil, dust, dirt, millscale or other foreign substance to ensure good adhesion.

Minimum surface preparation methods to be followed for:

1. Iron and Steel SSPC-SP2 'St 2' (Hand Tool Cleaning) or SP3 'St 3' (Power Tool Cleaning).
2. Aluminum and Galvanizing Metal SSPC-SP1 (Solvent Cleaning). Allow weathering of new galvanized steel for six months prior to coating.
3. Concrete should be cured, dry and clean.
4. Wood, sand the surface with suitable grit sand paper and remove all the dust with a tack cloth or blast of clean air. If any dirt or grease remains prior to finishing it must be removed by solvent wiping.

### Application Methods:

<b>Conventional Spray:</b>	Reduce 10% with thinner
<b>Airless Spray:</b>	Reduce 10% with thinner
<b>Brush/Roller:</b>	Reduction not recommended

## SPECIAL TIPS

Excessive reduction of material can affect the film build, appearance, and adhesion. Any further specific technical information can be obtained from SWSA if you email [ask@sherwinwilliams.ae](mailto:ask@sherwinwilliams.ae)

\*For further information on recommended products please refer to Sherwin Williams Saudi Arabia Painting & Coatings System Guide.

\*\*For further information on surface preparation methods and application procedures please refer to Sherwin Williams Saudi Arabia Surface Preparation bulletin.

## SAFETY PRECAUTIONS

Spray under well-ventilated conditions. Do not breathe or inhale mist. When spraying, wear air mask. Avoid skin contact. Spillage on skin should immediately be removed with suitable cleanser, soap and water. Eyes should be flushed with water and medical attention sought immediately.