

the paint the professionals use

access specification information online at [www.resene.co.nz](http://www.resene.co.nz) (NZ) or [www.resene.com.au](http://www.resene.com.au) (AUST)  
minimise the effect of your project on the environment – see [www.resene.co.nz/paintwise.htm](http://www.resene.co.nz/paintwise.htm)

## Substrate Characteristics

While steel in its various forms is usually used for its structural strength, it does need to be protected from atmospheric pollutants, water and other chemicals that cause corrosion. Once started, corrosion is a self-perpetuating process and may quickly lead to serious weakening of structures and building fabrics, as well as unsightly rust stains on concrete or coated areas.

## Surface Preparation

New Work - see [Surface Preparation D801](#) for detailed preparation guidelines.  
Repaints - see [Surface Preparation D87](#) for detailed preparation guidelines.

## 6e 1 Exterior Waterborne

Surfaces should be primed within a few hours of preparation to avoid flash rusting by contamination from salts and moisture in the atmosphere, then topcoated with the coating appropriate to the end-use and degree of exposure. Metal substrates sometimes hidden in the building's design are at risk of corrosion and rust should they be left unpainted. Usually these surfaces only have one chance to be painted, so it is recommended these surfaces are conscientiously painted during construction.

| Generic Specification |             |            |             | Resene Spec No. | Resene One-Line Specification |                   |                   |                |                |
|-----------------------|-------------|------------|-------------|-----------------|-------------------------------|-------------------|-------------------|----------------|----------------|
| Substrate             | Environment | Paint Type | Gloss Level |                 | Surface Prep                  | 1st Coat          | 2nd Coat          | 3rd Coat       | 4th Coat       |
| Ferrous Metals        | Exterior    | Waterborne | Gloss       | <b>6e 1.1</b>   | D801                          | Rust-Arrest RA30A | Rust-Arrest RA30A | Enamacryl D309 | Enamacryl D309 |
| Ferrous Metals        | Exterior    | Waterborne | Semi-Gloss  | <b>6e 1.2</b>   | D801                          | Rust-Arrest RA30A | Rust-Arrest RA30A | Lustacryl D310 | Lustacryl D310 |

## Exterior Ferrous Metals

Cast Iron, Iron, Steel and Wrought Iron

Brush applied systems for non-demanding environments

For systems for demanding environments or for spray application see [22e](#)

## 6e 2 Exterior Solventborne

Surfaces should be primed within a few hours of preparation to avoid flash rusting by contamination from salts and moisture in the atmosphere, then topcoated with the coating appropriate to the end-use and degree of exposure. Metal substrates sometimes hidden in the building's design are at risk of corrosion and rust, should they be left unpainted. Usually these surfaces only have one chance to be painted, so it is recommended these surfaces are conscientiously painted during construction. Semi-gloss and flat solventborne paints do not have the necessary weather resistance for exterior exposure. The Heavy Duty Systems (HDS) below must be applied by professional painters.

| Generic Specification |             |              |             | Resene Spec No. | Resene One-Line Specification |                                                |                                       |                                       |                                            |                      |
|-----------------------|-------------|--------------|-------------|-----------------|-------------------------------|------------------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------------|----------------------|
| Substrate             | Environment | Paint Type   | Gloss Level |                 | Surface Prep                  | 1st Coat                                       | 2nd Coat                              | 3rd Coat                              | 4th Coat                                   |                      |
| Ferrous Metals        | Exterior    | Solventborne | Gloss       | <b>6e 2.1</b>   | D801                          | NRS: Rust-Arrest RA30A<br>HDS: Alumastic RA402 | Rust-Arrest RA30A<br>Uracryl 403 RA56 | Rust-Arrest RA30A<br>Uracryl 403 RA56 | Acrylic Undercoat D404<br>Uracryl 403 RA56 | Super Gloss D32<br>- |
| Ferrous Metals        | Exterior    | Solventborne | Semi-Gloss  | <b>6e 2.2</b>   | D801                          | HDS: Alumastic RA402                           | Uracryl 402 RA55                      | Uracryl 402 RA55                      | -                                          |                      |

**Key:** HDS = Heavy Duty System NRS = Normal Recommended System

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## Substrate Characteristics

While steel in its various forms is usually used for its structural strength, it does need to be protected from atmospheric pollutants, water and other chemicals which cause corrosion. Once started, corrosion is a self-perpetuating process and may quickly lead to serious weakening of structures and building fabrics, as well as unsightly rust stains on concrete or coated areas.

## Surface Preparation

New Work - see [Surface Preparation D801](#) for detailed preparation guidelines.  
Repaints - see [Surface Preparation D87](#) for detailed preparation guidelines.

## 6i 1 Interior Waterborne

Surfaces should be primed within a few hours of preparation to avoid flash rusting by contamination from salts and moisture in the atmosphere, then topcoated with the coating appropriate to the end use. Typically waterborne paints tend to be thermoplastic and may pick up dirt as well as softening after repeated hand contact. Waterborne enamels Resene Enamacryl (see [Data Sheet D309](#)) and Resene Lustacryl (see [Data Sheet 310](#)) have been specifically designed to overcome these traditional weaknesses. Metal substrates sometimes hidden in the building's design, such as under floors, are at risk of corrosion and rust should they be left unpainted. Usually these surfaces only have one chance to be painted, so it is recommended these surfaces are conscientiously painted during construction.

## Interior Ferrous Metals

Cast Iron, Iron, Steel and Wrought Iron

Brush applied systems for non-demanding environments

For systems for demanding environments or for spray application see [22i](#)

| Generic Specification |             |            |             | Resene Spec No. | Resene One-Line Specification |                   |               |                |                |
|-----------------------|-------------|------------|-------------|-----------------|-------------------------------|-------------------|---------------|----------------|----------------|
| Substrate             | Environment | Paint Type | Gloss Level |                 | Surface Prep                  | 1st Coat          | 2nd Coat      | 3rd Coat       | 4th Coat       |
| Ferrous Metals        | Interior    | Waterborne | Gloss       | <b>6i 1.1</b>   | D801                          | Rust-Arrest RA30A | Quick Dry D45 | Enamacryl D309 | Enamacryl D309 |
| Ferrous Metals        | Interior    | Waterborne | Semi-Gloss  | <b>6i 1.2</b>   | D801                          | Rust-Arrest RA30A | Quick Dry D45 | Lustacryl D310 | Lustacryl D310 |

## 6i 2 Interior Solventborne

Surfaces should be primed within a few hours of preparation to avoid flash rusting by contamination from salts and moisture in the atmosphere, then topcoated with the coating appropriate to the end-use and degree of exposure. Metal substrates sometimes hidden in the building's design, such as under floors, are at risk of corrosion and rust should they be left unpainted. Usually these surfaces only have one chance to be painted, so it is recommended these surfaces are conscientiously painted during construction. The Heavy Duty System (HDS) below must be applied by professional painters.

| Generic Specification |             |              |             | Resene Spec No. | Resene One-Line Specification |                                                |                                            |                                     |                      |
|-----------------------|-------------|--------------|-------------|-----------------|-------------------------------|------------------------------------------------|--------------------------------------------|-------------------------------------|----------------------|
| Substrate             | Environment | Paint Type   | Gloss Level |                 | Surface Prep                  | 1st Coat                                       | 2nd Coat                                   | 3rd Coat                            | 4th Coat optional    |
| Ferrous Metals        | Interior    | Solventborne | Gloss       | <b>6i 2.1</b>   | D801                          | NRS: Rust-Arrest RA30A<br>HDS: Vinyl Etch RA31 | Acrylic Undercoat D404<br>Uracryl 403 RA56 | Super Gloss D32<br>Uracryl 403 RA56 | Super Gloss D32<br>- |
| Ferrous Metals        | Interior    | Solventborne | Semi-Gloss  | <b>6i 2.2</b>   | D801                          | NRS: Rust-Arrest RA30A<br>HDS: Vinyl Etch RA31 | Acrylic Undercoat D404<br>Uracryl 402 RA55 | Lusta-Glo D33<br>Uracryl 402 RA55   | Lusta-Glo D33<br>-   |
| Ferrous Metals        | Interior    | Solventborne | Flat        | <b>6i 2.5</b>   | D801                          | Rust-Arrest RA30A                              | Acrylic Undercoat D404                     | Flatcote D306                       | Flatcote D306        |

**Key:** HDS = Heavy Duty System NRS = Normal Recommended System