Appendix: Photographs

Bloodstain Pattern Stage
Appendix 4.1.1. Standard Photography

Appendix 4.1.1.1. White Acrylic Bloodstain Pattern Stage
White Acrylic 1 – Medium Velocity

White Acrylic 2 – Swipe
White Acrylic 3 – Saturated

White Acrylic 4 – Control No Bloodstain
Appendix 4.1.1.2. White Latex Bloodstain Pattern Stage
White Latex 5 – Medium Velocity

White Latex 6 - Swipe
White Latex 7 – Saturated

White Latex 8 – Control No Bloodstain
Appendix 4.1.1.3. Black Latex Bloodstain Pattern Stage

Black Latex 9 – Medium Velocity

Black Latex 10 - Swipe
Black Latex 11 – Saturated

Black Latex 12 – Control No Bloodstain
Appendix 4.1.1.4. Maroon Latex Bloodstain Pattern Stage
Maroon Latex 13 – Medium Velocity

Maroon Latex 14 – Swipe
Maroon Latex 15 – Saturated

Maroon Latex 16 – Control No Bloodstain
Appendix 4.1.2. Reflective Infrared Photography

Appendix 4.1.2.1. White Acrylic Bloodstain Pattern Stage – 70, 87, 87A, 87B, 88A, 89B
White Acrylic 1 – Medium Velocity

Longpass #70 HDR

Longpass #70 Single
Longpass #87B HDR

Longpass #87B Single
Longpass #88A HDR

Longpass #88A Single
White Acrylic 2 – Swipe

Longpass #70 HDR

Longpass #70 Single
Longpass #87 HDR

Longpass #87 Single
Longpass #87B HDR

Longpass #87B Single
Longpass #89B HDR

Longpass #89B Single
White Acrylic 3 – Saturated

Longpass #70 HDR

Longpass #70 Single
Longpass #87BHDR

Longpass #87B Single
White Acrylic 4 – Control No Blood

Longpass #70 HDR
Appendix 4.1.2.2. White Latex – 70, 87, 87A, 87B, 88A, 89B Bloodstain pattern stage

White Latex 5 – Medium Velocity

Longpass #70  HDR

Longpass #70  Single
Longpass #87 HDR

Longpass #87 Single
Longpass #87A HDR

Longpass #87A Single
Longpass #89B HDR

Longpass #89B Single
Longpass #87 HDR

Longpass #87 Single
Longpass #87A HDR

Longpass #87A Single
White Latex 7 – Saturated

Longpass #70 HDR

Longpass #70 Single
Longpass #89B HDR

Longpass #89B Single
White Latex 8 – Control No Blood

Longpass #70 HDR
Appendix 4.1.2.3. Black Latex – 70, 87, 87A, 87B, 88A, 89B Bloodstain pattern stage
Black Latex 9 – Medium Velocity

Longpass #70 HDR

Longpass #70 Single
Longpass #87B HDR

Longpass #87B Single
Longpass #89B HDR

Longpass #89B Single
Black Latex 10 – Swipe

Longpass #70 HDR

Longpass #70 Single
Longpass #89B HDR

Longpass #89B Single
Black Latex 11 – Saturated

Longpass #70 HDR

Longpass #70 Single
Longpass #87 HDR

Longpass #87 Single
Longpass #87B HDR

Longpass #87B Single
Black Latex 12 – Control No Blood

Longpass #70 HDR
Appendix 4.1.2.4. Maroon Latex – 70, 87, 87A, 87B, 88A, 89B Bloodstain pattern stage
Maroon Latex 13 – Medium Velocity

Longpass #70 HDR

Longpass #70 Single
Longpass #87A HDR

Longpass #87A Single
Longpass #87B HDR

Longpass #87B Single
Longpass #88A HDR

Longpass #88A Single
Longpass #89B HDR

Longpass #89B Single
Maroon Latex 14 – Swipe

Longpass #70 HDR

Longpass #70 Single
Longpass #87 HDR

Longpass #87 Single
Longpass #87B HDR

Longpass #87B Single
Maroon Latex 15 – Saturated

Longpass #70 HDR

Longpass #70 Single
Longpass #89B HDR

Longpass #89B Single
Maroon Latex 16 – Control No Blood

Longpass #70 HDR
Appendix 4.1.3. Ultraviolet Photography
Appendix 4.1.3.1 White Acrylic Bloodstain pattern stage
White Acrylic 1 – Medium Velocity

![White Acrylic 1 – Medium Velocity](image1)

White Acrylic 2 – Swipe

![White Acrylic 2 – Swipe](image2)
White Acrylic 3 – Saturated

White Acrylic 4 – Control No Bloodstain

300
Appendix 4.1.3.2. White Latex Bloodstain pattern stage
White Latex 5 – Medium Velocity

White Latex 6 – Swipe
White Latex 7 – Saturated

White Latex 8 – Control No Bloodstain
Appendix 4.1.3.3. Black Latex Bloodstain pattern stage

Black Latex 9 – Medium Velocity

Black Latex 10 - Swipe
Black Latex 11 – Saturated

Black Latex 12 – Control No Bloodstain
Appendix 4.1.3.4. Maroon Latex Bloodstain pattern stage
Maroon Latex 13 – Medium Velocity

Maroon Latex 14 – Swipe
Maroon Latex 15 – Saturated

Maroon Latex 16 – Control No Bloodstain
Appendix 4.1.4. Fluorescence Photography Bloodstain pattern stage

Appendix 4.1.4.1. White Acrylic 1 – Medium Velocity

Yellow 445nm

Appendix 4.1.4.2. White Latex 5 – Medium Velocity

Yellow 445nm
Appendix 4.1.4.3. Black Latex 9 – Medium Velocity

Yellow 445nm

Appendix 4.1.4.4. Maroon Latex 13 – Medium Velocity

Yellow 445nm
First Layer of Paint over Bloodstain Patterns Stage
Appendix 4.2.2. Standard Photography

Appendix 4.2.2.1. White Acrylic First layer of paint stage
White Acrylic 1 – Medium Velocity

White Acrylic 2 – Swipe
White Acrylic 3 – Saturated

White Acrylic 4 – Control No Bloodstain
Appendix 4.2.2. White Latex First layer of paint stage
White Latex 5 – Medium Velocity

White Latex 6 – Swipe
White Latex 7 – Saturated

White Latex 8 – Control No Bloodstain
Appendix 4.2.2.3. Black Latex First layer of paint stage
Black Latex 9 – Medium Velocity

Black Latex 10 – Swipe
Black Latex 11 – Saturated

Black Latex 12 – Control No Bloodstain
Appendix 4.2.2.4. Maroon Latex First layer of paint stage
Maroon Latex 13 – Medium Velocity

Maroon Latex 14 – Swipe
Maroon Latex 15 – Saturated

Maroon Latex 16 – Control No Bloodstain
Appendix 4.2.3. Reflective Infrared Photography

Appendix 4.2.3.1. White Acrylic 70, 87, 87A, 87B, 88A, 89B First layer of paint stage

White Acrylic 1 – Medium Velocity

Longpass #70 HDR

Longpass #70 Single
Longpass #87 HDR

Longpass #87 Single
Longpass #87A HDR

Longpass #87A Single
Longpass #87B HDR

Longpass #87B Single
Longpass #89B HDR

Longpass #89B Single
White Acrylic 2 – Swipe

Longpass #70 HDR

Longpass #70 Single
Longpass #87B HDR

Longpass #87B Single
Longpass #88A HDR

Longpass #88A Single
Longpass #89B HDR

Longpass #89B Single
White Acrylic 3 – Saturated

Longpass #70 HDR

Longpass #70 Single
White Acrylic 4 – Control No Bloodstain

Longpass #70 HDR
Appendix 4.2.3.2. White Latex 70, 87, 87A, 87B, 88A, 89B First layer of paint stage
White Latex 5 – Medium Velocity

Longpass #70 HDR

Longpass #70 Single
Longpass #87B HDR

Longpass #87B Single
Longpass #88A HDR

Longpass #88A Single
White Latex 6 – Swipe

Longpass #70 HDR

Longpass #70 Single
Longpass #87 HDR

Longpass #87 Single
Longpass #87B HDR

Longpass #87B Single
Longpass #88A HDR

Longpass #88A Single
White Latex 7 – Saturated

Longpass #70 HDR

Longpass #70 Single
Longpass #87B HDR

Longpass #87B Single
White Latex 8 – Control No Bloodstain

Longpass #70 HDR
Appendix 4.2.3.3. Black Latex 70, 87, 87A, 87B, 88A, 89B First layer of paint stage
Black Latex 9 – Medium Velocity

Longpass #70 HDR

Longpass #70 Single
Longpass #87 HDR

Longpass #87 Single
Longpass #89B HDR

Longpass #89B Single
Black Latex 10 – Swipe

Longpass #70 HDR

Longpass #70 Single
Longpass #87A HDR

Longpass #87A Single
Longpass #88A HDR

Longpass #88A Single
Longpass #89B HDR

Longpass #89B Single
Black Latex 11 – Saturated

Longpass #70 HDR

Longpass #70 Single
Longpass #87 HDR

Longpass #87 Single
Longpass #89B HDR

Longpass #89B Single
Black Latex 12 – Control No Bloodstain

Longpass #70 HDR
Appendix 4.2.3.4. Maroon Latex 70, 87, 87A, 87B, 88A, 89B First layer of paint stage
Maroon Latex 13 – Medium Velocity

Longpass #70 HDR

Longpass #70 Single
Longpass #87 HDR

Longpass #87 Single
Longpass #87B HDR

Longpass #87B Single
Longpass #89B HDR

Longpass #89B Single
Maroon Latex 14 – Swipe

Longpass #70 HDR

Longpass #70 Single
Longpass #87 HDR

Longpass #87 Single
Maroon Latex 15 – Saturated

Longpass #70 HDR

Longpass #70 Single
Longpass #87 HDR

Longpass #87 Single
Longpass #87A HDR

Longpass #87A Single
Longpass #89B HDR

Longpass #89B Single
Maroon Latex 16 – Control No Bloodstain

Longpass #70 HDR
Appendix 4.2.4. Ultraviolet Photography
Appendix 4.2.4.1. White Acrylic First layer of paint stage
White Acrylic 1 – Medium Velocity

HDR

Single
White Acrylic 2 – Swipe

 HDR

 Single
White Acrylic 3 – Saturated

HDR

Single
White Acrylic 4 – Control No Bloodstain

HDR
Appendix 4.2.4.2. White Latex First layer of paint stage
White Latex 5 – Medium Velocity

HDR

Single
White Latex 7 – Saturated

HDR

Single
White Latex 8 – Control No Bloodstain

HDR
Appendix 4.2.4.3. Black Latex First layer of paint stage
Black Latex 9 – Medium Velocity

HDR

Single
Black Latex 10 – Swipe

HDR

Single
Black Latex 11 – Saturated

HDR

Single
Black Latex 12 – Control No Bloodstain

HDR
Appendix 4.2.4.4. Maroon Latex First layer of paint stage
Maroon Latex 13 – Medium Velocity

HDR

Single
Maroon Latex 14 – Swipe

HDR

Single
Maroon Latex 15 – Saturated

HDR

Single
Maroon Latex 16 – Control No Bloodstain

HDR
Appendix 4.2.5. Fluorescence Photography

Appendix 4.2.5.1. White Acrylic – Yellow 415nm, 445nm, 455nm; Orange 445nm, 455nm, 475nm, 495nm, 515nm; Red 575nm First layer of paint stage

White Acrylic 1 – Medium Velocity

Yellow 415nm HDR

Yellow 415nm Single
Orange 495nm HDR

Orange 495nm Single
Orange 515nm HDR

Orange 515nm Single
White Acrylic 2 – Swipe

Yellow 415nm HDR

Yellow 415nm Single
Red 575nm HDR

Red 575nm Single
White Acrylic 3 – Saturated

Yellow 415nm HDR

Yellow 415nm Single
Yellow 445nm HDR

Yellow 445nm Single
Yellow 455nm HDR

Yellow 455nm Single
White Acrylic 4 – Control No Bloodstain

Yellow 415nm HDR

Yellow 445nm HDR
Yellow 455nm HDR

Orange 445nm HDR
Red 575nm HDR
Appendix 4.2.5.2. White Latex – Yellow 415nm, 445nm, 455nm; Orange 445nm, 455nm, 475nm, 495nm, 515nm; Red 575nm First layer of paint stage
White Latex 5 – Medium Velocity

Yellow 415nm HDR

Yellow 415nm Single
Orange 455nm HDR

Orange 455nm Single
Orange 475nm HDR

Orange 475nm Single
White Latex 6 – Swipe

Yellow 415nm HDR

Yellow 415nm Single
Orange 455nm HDR

Orange 455nm Single
Orange 495nm HDR

Orange 495nm Single
Orange 515nm HDR

Orange 515nm Single
White Latex 7 – Saturated

Yellow 415nm HDR

Yellow 415nm Single
Yellow 455nm HDR

Yellow 455nm Single
Orange 445nm HDR

Orange 445nm Single
Orange 515nm HDR

Orange 515nm Single
Red 575nm HDR

Red 575nm Single
White Latex 8 – Control No Bloodstain

Yellow 415nm HDR

Yellow 445nm HDR
Yellow 455nm HDR

Orange 445nm HDR
Orange 495nm HDR

Orange 515nm HDR
Red 575nm HDR
Appendix 4.2.5.3. Black Latex – Yellow 475nm, 495nm, 670nm; Orange 555nm, 600nm, 670nm; Red 600nm First layer of paint stage
Black Latex 9 – Medium Velocity

Yellow 475nm HDR

Yellow 475nm Single
Red 600nm HDR

Red 600nm Single
Black Latex 10 – Swipe

Yellow 475nm HDR

Yellow 475nm Single
Orange 670nm HDR

Orange 670nm Single
Red 600nm HDR

Red 600nm Single
Black Latex 11 – Saturated

Yellow 475nm HDR

Yellow 475nm Single
Yellow 670nm HDR

Yellow 670nm Single
Orange 555nm HDR

Orange 555nm Single
Orange 670nm HDR

Orange 670nm Single
Red 600nm HDR

Red 600nm Single
Black Latex 12 – Control No Bloodstain

Yellow 475nm HDR

Yellow 495nm HDR
Yellow 670nm HDR

Orange 555nm HDR
Appendix 4.2.5.4. Maroon Latex – Yellow 415nm, 445nm, 455nm; Orange 415nm, 445nm; Red 415nm, 445nm, 455nm, 575nm First layer of paint stage
Maroon Latex 13 – Medium Velocity

Yellow 415nm HDR

Yellow 415nm Single
Yellow 445nm HDR

Yellow 445nm Single
Red 445nm HDR

Red 445nm Single
Red 575nm HDR

Red 575nm Single
Maroon Latex 14 – Swipe

Yellow 415nm HDR

Yellow 415nm Single
Maroon Latex 15 – Saturated

Yellow 415nm HDR

Yellow 415nm Single
Yellow 455nm HDR

Yellow 455nm Single
Orange 415nm HDR

Orange 415nm Single
Red 445nm HDR

Red 445nm Single
Red 575nm HDR

Red 575nm Single
Maroon Latex 16 – Control No Bloodstain

Yellow 415nm HDR

Yellow 445nm HDR
Yellow 455nm HDR

Orange 415nm HDR
Orange 445nm HDR

Red 415nm HDR
Second Layer of Paint over Bloodstain Patterns Stage
Appendix 4.3.2. Standard Photography
Appendix 4.3.2.1. White Acrylic
White Acrylic 1 – Medium Velocity

White Acrylic 1 – Medium Velocity Oblique Left
White Acrylic 1 – Medium Velocity Oblique Right

White Acrylic 2 – Swipe
White Acrylic 2 – Swipe Oblique Left

White Acrylic 2 – Swipe Oblique Right
White Acrylic 3 – Saturated

White Acrylic 3 – Saturated Oblique Left
White Acrylic 3 – Saturated Oblique Right

White Acrylic 4 – Control No Bloodstain
Appendix 4.3.3. Reflective Infrared Photography

Appendix 4.3.3.1. White Acrylic 87A, 87B, 88A, 89B Oblique Second layer of paint stage

White Acrylic 1 – Medium Velocity

Longpass 87A HDR

Longpass 87A Single
Longpass 87A HDR Left Oblique

Longpass 87A Single Left Oblique
Longpass 87A HDR Right Oblique

Longpass 87A Single Right Oblique
Longpass 88A HDR

Longpass 88A Single
Longpass 88A HDR Right Oblique

Longpass 88A Single Right Oblique
White Acrylic 2 – Swipe

Longpass 87A HDR

Longpass 87A Single
Longpass 87B HDR Left Oblique

Longpass 87B Single Left Oblique
Longpass 88A HDR

Longpass 88A Single
Longpass 88A HDR Left Oblique

Longpass 88A Single Left Oblique
Longpass 89B HDR Left Oblique

Longpass 89B Single Left Oblique
Longpass 89B HDR Right Oblique

Longpass 89B Single Right Oblique
White Acrylic 3 – Saturated

Longpass 87A HDR

Longpass 87A Single
Longpass 87B HDR

Longpass 87B Single
Longpass 88A HDR Left Oblique

Longpass 88A Single Left Oblique
Longpass 89B HDR Right Oblique

Longpass 89B Single Right Oblique
Appendix 4.3.4. Ultraviolet Photography
Appendix 4.3.4.1. White Acrylic Second layer of paint stage
White Acrylic 1 – Medium Velocity

HDR

Single
White Acrylic 2 – Swipe

HDR

Single
White Acrylic 3 – Saturated

HDR

Single
Appendix 4.3.4.2. White Latex Second layer of paint stage
White Latex 5 – Medium Velocity

HDR

Single
White Latex 6 – Swipe

HDR

Single
White Latex 7 – Saturated

HDR

Single
Appendix 4.3.4.3. Black Latex Second layer of paint stage
Black Latex 9 – Medium Velocity

HDR

Single
Black Latex 10 – Swipe

HDR

Single
Black Latex 11 – Saturated

HDR

Single
Appendix 4.3.4.4. Maroon Latex Second layer of paint stage
Maroon Latex 13 – Medium Velocity

HDR

Single
Maroon Latex 15 – Saturated

HDR

Single
Appendix 4.3.5. Fluorescence Photography
Appendix 4.3.5.1. White Acrylic – Yellow 415nm, 445nm, 455nm; Orange 415nm, 445nm, 455nm, 475nm, 495nm; Red 415nm, 445nm, 455nm, 475nm, 575nm Second layer of paint stage
White Acrylic 1 – Medium Velocity

Yellow 415nm HDR

Yellow 415nm Single
Yellow 445nm HDR

Yellow 445nm Single
Yellow 455nm HDR

Yellow 455nm Single
Orange 455nm HDR

Orange 455nm Single
Orange 475nm HDR

Orange 475nm Single

585
Red 445nm HDR

Red 445nm Single
White Acrylic 2 – Swipe

Yellow 415nm HDR

Yellow 415nm Single
Orange 475nm HDR

Orange 475nm Single
Red 415nm HDR

Red 415nm Single
Red 475nm HDR

Red 475nm Single
White Acrylic 3 – Saturated

Yellow 415nm HDR

Yellow 415nm Single
Yellow 455nm HDR

Yellow 455nm Single
Orange 495nm HDR

Orange 495nm Single
Red 415nm HDR

Red 415nm Single
Red 575nm HDR

Red 575nm Single
Appendix 4.3.5.2. White Latex – Yellow 415nm, 445nm, 455nm; Orange 415nm, 445nm, 455nm, 475nm, 495nm; Red 415nm, 445nm, 455nm, 475nm, 575nm Second layer of paint stage

White Latex 5 – Medium Velocity

Yellow 415nm HDR

Yellow 415nm Single
Yellow 445nm HDR

Yellow 445nm Single
Orange 445nm HDR

Orange 445nm Single
Orange 455nm HDR

Orange 455nm Single
Red 475nm HDR

Red 475nm Single
Red 575nm HDR

Red 575nm Single
White Latex 6 – Swipe

Yellow 415nm HDR

Yellow 415nm Single
Red 575nm HDR

Red 575nm Single
White Latex 7 – Saturated

Yellow 415nm HDR

Yellow 415nm Single
Yellow 455nm HDR

Yellow 455nm Single
Orange 415nm HDR

Orange 415nm Single
Orange 445nm HDR

Orange 445nm Single
Appendix 4.3.5.3. Black Latex – Yellow 475nm Second layer of paint stage
Black Latex 9 – Medium Velocity

Yellow 475nm HDR

Yellow 475nm Single
Black Latex 10 – Swipe

Yellow 475nm HDR

Yellow 475nm Single
Black Latex 11 – Saturated

Yellow 475nm HDR

Yellow 475nm Single
Appendix 4.3.5.4. Maroon Latex – Yellow 455nm Second layer of paint stage
Maroon Latex 13 – Medium Velocity

Yellow 455nm HDR

Yellow 455nm Single
Maroon Latex 14 – Swipe

Yellow 455nm HDR

Yellow 455nm Single
Luminol Testing Stage
Appendix 4.4.1. Standard Photography
Appendix 4.4.1.1. White Acrylic Second layer of paint stage
White Acrylic 1 – Medium Velocity

Standard

Luminol
White Acrylic 2 – Swipe

Standard

Luminol
White Acrylic 3 – Saturated

Standard

Luminol
White Acrylic 4 – Control No Bloodstain

Standard

Luminol
Appendix 4.4.1.2. White Latex Second layer of paint stage
White Latex 5 – Medium Velocity

Standard

Luminol
White Latex 6 – Swipe

Standard

Luminol
White Latex 7 – Saturated

Standard

Luminol
White Latex 8 – Control No Bloodstain

Standard

Luminol
Appendix 4.4.1.3. Black Latex Second layer of paint stage
Black Latex 9 – Medium Velocity

Standard

Luminol
Black Latex 10 – Swipe

Standard

Luminol
Black Latex 11 – Saturated

Standard

Luminol
Black Latex 12 – Control No Bloodstain

Standard

Luminol
Appendix 4.4.1.4. Maroon Latex Second layer of paint stage
Maroon Latex 13 – Medium Velocity

Standard

Luminol
Maroon Latex 14 – Swipe

Standard

Luminol
Maroon Latex 15 – Saturated

Standard

Luminol
Maroon Latex 16 – Control No Bloodstain

Standard

Luminol