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PLEASE TURN OFF OR SILENCE YOUR CELL PHONES.

THANK YOU.

Adventures in Weathering Freight Cars

A Presentation given for the Chicagoland RPM October 2018 by Chris Vanko





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TOOLS AND MATERIALS

Oil Paints: Raw Umber

Odorless Mineral Spirits

Burnt Umber Burnt Sienna Unbleached Titanium Portland Light Grey Payne's Grey Black White

TOOLS AND MATERIALS

Pan Pastels:

Raw Umber Neutral Grey Tint Raw Umber Extra Dark Black Raw Umber Shade Raw Umber Tint Burnt Sienna Extra Dark Burnt Sienna Shade Red Iron Oxide Extra Dark Neutral Grey Neutral Grey Extra Dark

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TOOLS AND MATERIALS

Prismacolor Pencils: Black Terra Cotta Tuscan Red Dark Brown Dark Umber Cool Grey Warm Grey White

STEPS IN THE PROCESS

- •Paint car
- Pre-weather
- Apply major decal lettering
- •Weather
- Apply remaining decals
- Finishing touches



This Marty Bernard photo of two single sheathed Q cars at Eola late in their lives shows some heavy "weathering".

This is a plastic Intermountain single sheathed car that will be given some above normal weathering to show its age. After including some added detail to the Intermountain car, it was sprayed with Zinc Chromate Primer.





After a short while to let the oil wash dry, PrismaColor pencils were used to highlight various boards and seams. Colors used included black, various grays, and various browns. A randomness of the coloring is the desired outcome.



Here is the almost finished car. The treatment given the roof and the trucks will be discussed in future slides.







A somewhat earlier photo, July of 1969, taken by George Speier shows similar deterioration of the car sides. This has been caused by repeated hammering of the sides to loosen loads that haven't wanted to drop.

CB&Q 220141 CAFACITY 100000 LIGHT WT. 48400	Frend Weat	NUME LOAD LINET 2000 LINE FRA CO. VID. CO. FT. 1948	
= n	BUILT 7-27	-	

This model is a brass import. Out of the box it appears as it would new. The goal is to transform it to a mid-1950s condition.



Burlington CB&0 Houte BUILT 7-27 An oil wash of raw umber is then applied. Using vertical strokes the wash simulates wear and tear and highlights the rivets and seams. The wash also gives an overall uniform base on which to build



The next step is to lightly dry brush the car with the same Raw Umber oil to enhance even further the rivets and seams.





The detail highlights are more fully emphasized by dry brushing with the same raw umber oil. Rust spots were created by stippling.

The following slide shows two additional cars applying the same process with slightly different outcomes. Car 220581 has had some lighter color oil paint work as well. 22



These three ballast cars are not yet finished as they still have some decal work that needs to be done – changing dates, adding repack notations, and adding chalk marks. These will all be done with "patches" or other highlighting.

Future slides will show this work as well as the "inside" weathering treatments.



This Sunshine Models kit of an L&N box car was first painted with a Floquil box car red. After that cured, a clear flat coat was applied. After that coat had dried, the oil wash of raw umber was used to begin the pre-weathering process.



A dry brushing with the same raw umber oil has provided an enhancement of the seams and rivet detail. Use vertical strokes. Some extra work was done along the sill to allow some "soot" to gather.





The decals are then applied in the usual fashion. The colored decal film "patches" are simulating paint outs for reweigh and repack applications.





The next step is to add chalk markings. Small patches are re-glossed with Future Floor Polish to allow the application of more decals.



The additional chalk mark decals have now been applied.



Another flat coat is applied to seal the decals and, when dry, some additional weathering is applied to the entire car to tone down the lettering and give a final blending. Then a final flat coat is applied to seal everything.





After completing the kit, the car was painted with True Color paint (#240). An oil wash was applied, some highlighting with PrismaColor pencils was added. Then the car was gloss coated.





After the decals were applied the car received a flat coat. Some highlighting with oils brings out the rivets and board grain.



Small pieces of tape were then applied to the areas where the restenciling is to be simulated.



Dry brushing with Raw Umber oil paint and some additional highlighting of individual boards with PrismaColor pencils to both the inside and the outside of the car is the next step. The interior of the car was also given a heavy dose of black Pan Pastels to simulate coal loading. Tape covers areas where "clean" lettering will appear.





Even more grime has been added to the bottom of the car side, as well as an overall dry brushing of the car to tone down the grey of the slats. After that step was completed, the tape was removed to allow for the addition of other decals.





When the decal had set and was completely dry, a coat of flat was applied to seal it. Some additional weathering was applied with Pan Pastels to blend the repack and reweigh dates into the rest of the car.

Trucks and Wheel Sets





Start by painting the trucks with Rustoleum Camouflage Brown to eliminate the shiny black plastic appearance.





Black Pan Pastel is then stippled into the wet acrylic which gives both color and texture to the sideframe. From here additional colors can be layered on (also stippled, not brushed) until the desired appearance is achieved.



The wheelsets are painted with a flat black for a solid bearing truck. If it were for a roller bearing truck the Rustoleum Camo Brown would be used. After they are dry, the faces are coated with the acrylic flat.

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Black Pan Pastel is then stippled onto the wheel faces.

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Blow away the excess powder and this is the result.



Roofs and Interiors



A fifty foot Western Pacific box car has been treated to create a rusty, peeling, aged roof. The techniques to achieve this look are outlined in the next set of slides.



Returning to our Intermountain SS box car, after the flat coat has dried Polly Scale Milwaukee Grey has been brushed on between the roof ribs.





Acrylic Raw Umber is randomly painted at the edges of the panels and elsewhere on the roof to simulate old rust. When that is dry, Burnt Sienna oils are dabbed along the edges of the acrylic to simulate newer developing rust.





Silver paint is randomly brushed and dry brushed inside the car to simulate the wear and tear to the interior of the car body.





Red Iron Oxide Pan Pastels were then brushed on to simulate a light rusting.



A final light dusting with a grey Pan Pastel is added to simulate a light color aggregate residue.





For a black car the oil wash is changed to Burnt Umber so that it is a bit more visible.



Lighter color Pan Pastels are brushed on along the center sill and the lower half of the tank. Some Iron Oxide is also added along the straps to simulate developing rust.





The oil/pastel treatment is also done along the straps on the sides, as well as some additional pastels over the entire body of the car.























REFERENCES

Ken Patterson – Mainline Modeler, December 2005

Matt Sugerman – Pre weathering

Jason Quinn – Roof weathering

Mike Confalone – Weathering series at Trainmasters TV

Model Railroad Hobbyist - //http:model-railroad-hobbyist.com

Trainmasters TV - //https:trainmasters.tv