MASTER PAINTERS INSTITUTE

MPI Standards Community

Information Presentation

MASTER PAINTERS INSTITUTE

Communities of Interest

- Manufacturers
- Specifiers
- Contractors
- Raw Materials Suppliers
- Lab Personnel

- Utilize the knowledge, expertise, and differing points of reference to drive stronger standards and ensure performance

MPI
MASTER PAINTERS INSTITUTE

MPI: A Brief History

- Formed in Vancouver in 1995
- Originally comprised of asset owners, contractors, and testing personnel
- Third-party validation of paint products
- Protective and Architectural markets
- ASTM, NACE, SSPC, and other methods

Standards Community Goals

- Utilize the knowledge and expertise of a diverse group of interested parties to drive cohesive development
- Implement consistent and traceable standards development procedures
- Ensure standards appropriately capture and reflect performance requirements
- Address concerns about standards or tests in a group setting
- Provide a voice to all communities of interest, from manufacturers to specifiers, to application experts, etc
- Adapt and evaluate new technologies and their affect on current standards and requirements

MPI
MASTER PAINTERS INSTITUTE

Structure of an MPI Standard

- Comprised of 8 Sections
- 1 – Scope
  - Outlines the general use of a standard, including surfaces and any associated MPI categories used as primers, etc
- 2 – Toxic Elements
  - A general disclosure designating that the product is to be formulated in accordance with government safety and environmental regulations
- 3 – References
  - Lists any materials referred to in the standard, such as ASTM
- 4 – Intended Uses
  - Covers application methods, substrates, and surface preparation requirements
- 5 – Quality Assurance
  - Lists expectations of sample and records retention, and manufacturer responsibilities in the case of any changes to the product
- 6 – Labeling
  - List information required by MPI for testing. This requirement is usually covered by the SDS, TDS, and application for testing
- 7 – Testing and Listing Requirements
  - Statement of MPI's testing procedure
- 8 – Testing Requirements and Details
  - The "meat" of the standard. Lists all tests, requirements, and methods used. Concludes with a table of these requirements.

MPI
MASTER PAINTERS INSTITUTE

Testing Structure

Tests are listed in two forms:

- Long Form – stepwise instructions for performing the test, including cure time and thickness of application

8.3 **Gloss/Sheen**

8.3.a Apply a film of the paint under test to two (2) plain white application charts using a drawbar with a 7-mil gap (Note 1).

8.3.b Cure for 7 days under the conditions specified in Paragraph 8.1.a.

8.3.c Measure the gloss and sheen using a Byk Gardner Micro-Tri-gloss multi angle gloss-meter or equivalent instrument. An average of four readings taken at 0, 90, 180 and 270 degrees shall be used.

8.3.d Two (2) determinations shall be performed on each application chart (one in the center of the top half of the chart and one in the center of the bottom half of the chart).

- Short Form – A table format that succinctly lists test, criteria, and any related standard

8.4 Test Criteria Table

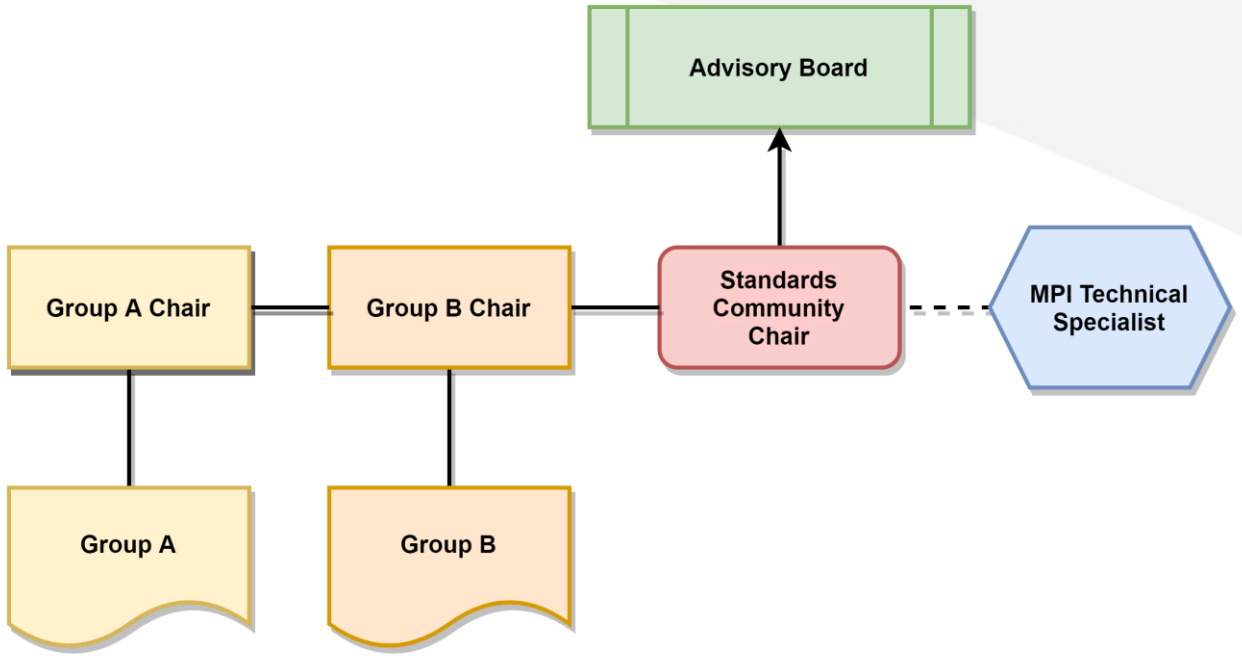
Test Name	Min	Max	ASTM Method
Gloss 60 degrees	---	10	D523
Sheen 85 Degrees	---	10	
Hiding Power (Opacity)	98	---	D2805
Reflectance	92	---	
Alkali Resistance	No lifting, wrinkling, or other defects.		
Scrubbability, 2500 cycles	No Breakthrough; Only minor visual difference;		D2486, modified
Flexibility, ¼" mandrel	No crack, peel, flake, or		D522

MPI MASTER PAINTERS INSTITUTE

MPI Standards Community Structure

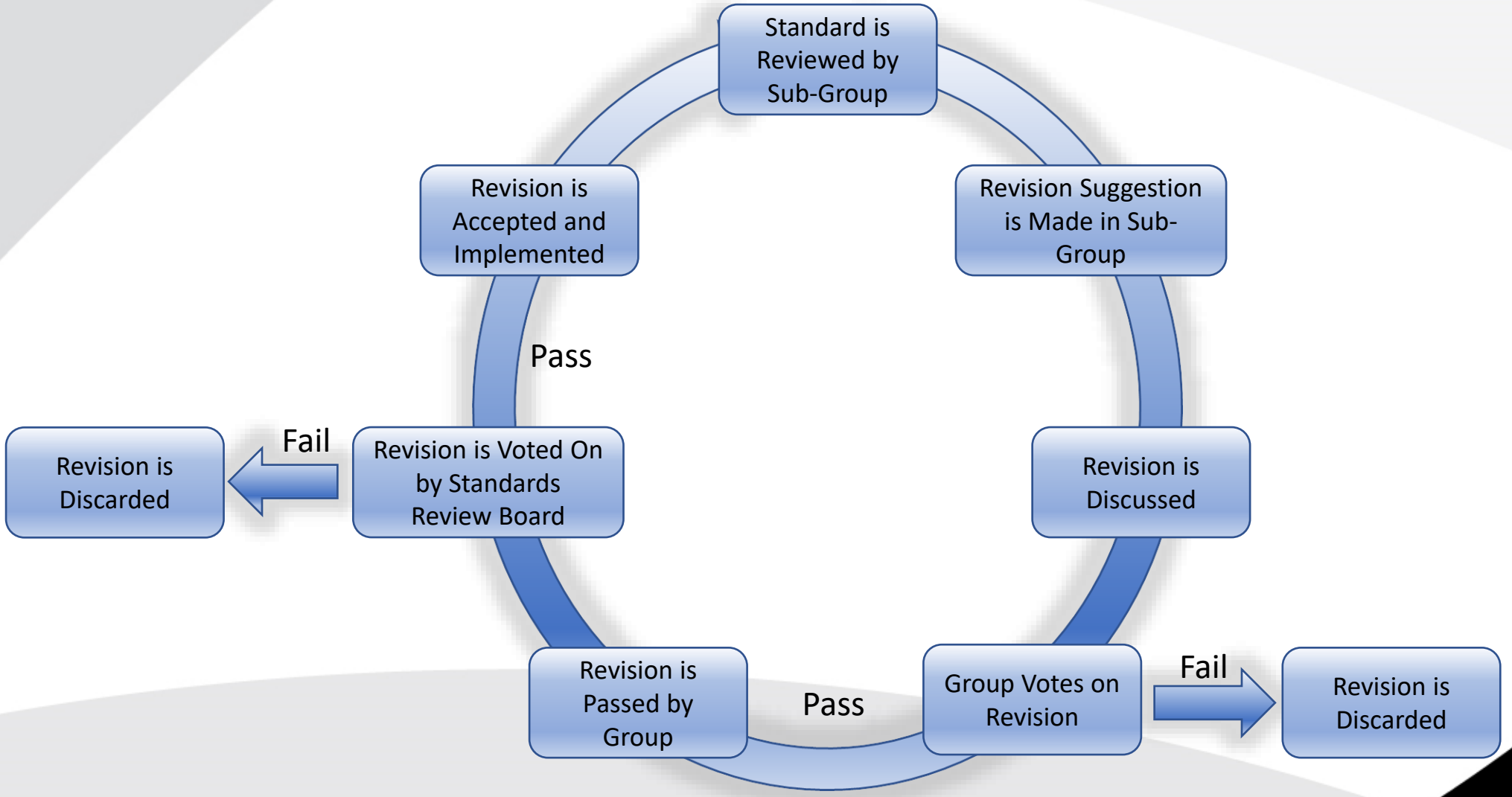
Standards Community Chair: Robert Leggat, KTA
MPI Tech Specialist: Terrance Mayes

- Initial number of Sub-Groups will be determined by community response to Standards Poll sent out in September
- Sub-Groups review, make consensus decisions
- Group Chairs bring Sub-Group findings Standards Review Board (SRB), which consists of all Group Chairs and Standards Community Chair
- SRB votes to accept or reject recommendation
- Accepted recommendations sent to Advisory Board



MPI
MASTER PAINTERS INSTITUTE

Standards Revision Process



MPI
MASTER PAINTERS INSTITUTE

Next Meeting

- Coatings+
- Phoenix, AZ
- December 14th, 2021
- Currently In-Person, with Virtual Option being explored

1. Introduce Chairs for Sub-Groups
2. Formalize Groups
3. Assign Review Goals

MPI
MASTER PAINTERS INSTITUTE