

## **APPENDIX A**

# **PROPOSED 2020 SUGGESTED CONTROL MEASURE FOR ARCHITECTURAL COATINGS**



**Note: Additions are shown as underline and deletions are shown as strikeout**

**California Air Resources Board (CARB)  
Suggested Control Measure for Architectural Coatings**

**Sections 1 through 8 have no changes**

**9. PHOTOVOLTAIC COATINGS**

**9.1 Exemptions:** There are no exemptions for Photovoltaic Coatings. The requirements of Section 9 are applicable to all Photovoltaic Coatings regardless of container size.

**9.2 Definition:** A coating labeled and formulated for application to solar photovoltaic modules. Photovoltaic Coatings are applied as a single layer to solar photovoltaic modules already installed. Photovoltaic Coatings do not include coatings applied to photovoltaic modules in shop applications.

**9.3 VOC Content Limits:** Commencing July 1, 2020, no person shall:

9.3.1 manufacture, blend, or repackage for use within the district; or

9.3.2 supply, sell, market, or offer for sale for use within the district; or

9.3.3 solicit for application or apply within the district, any Photovoltaic Coating with a VOC content in excess of 600 g/l. VOC limit expressed as VOC Actual, thinned to the manufacturer's maximum thinning recommendation.

**9.4 Volume Limits:** The volume of gallons of Photovoltaic Coatings are limited by the air district where the coatings will be applied. Table 3 includes the volume limits for Photovoltaic Coatings.

**9.5 Most Restrictive VOC Limit:** If a coating meets the definition in Section 9.2, then that coating is not required to meet the VOC limits in Table 1.

**9.6 Sell-Through Provisions:** Sell-through for Photovoltaic Coatings is prohibited.

**9.7 Painting Practices:** Photovoltaic Coatings must meet the painting practices in Section 5.4.

**9.8 Thinning:** No person who applies or solicits the application of any Photovoltaic Coating shall apply a coating that is thinned to exceed the applicable VOC limit specified in 9.3.

**9.9 Container Labeling Requirements:** Each manufacturer of any Photovoltaic Coating subject to this rule shall display the information listed in subsections 6.1.1 through 6.1.3 on the coating container (or label) in which the coating is sold or distributed. In addition, the label must include "applied as a single layer to solar photovoltaic modules."

**9.10 Sunset Date:** Effective January 1, 2028, the Photovoltaic Coatings category sunsets and the coatings are required to meet the applicable limits in Table 1.

**9.11 Calculation of VOC Content:** For the purpose of determining compliance with the VOC content limits in Section 9.3, the VOC content of a coating shall be determined as defined in subsection 4.67.

**9.12 VOC Content of Coatings:** The VOC content of Photovoltaic Coatings shall be determined as provided in subsection 8.2.

**9.13 Compliance Provisions and Test Methods:** The test methods identified in Section 8.5 shall be used to test coatings subject to the provisions of this rule.

**9.14 Notification Requirements:**

**9.14.1 Notify Air District:** Prior to use of any Photovoltaic Coatings, the Coating Manufacturer shall complete and submit a notification to the local air district. The notification shall include, but not be limited to the following information:

9.14.1.1. Source name, owner name, location, contact and telephone,

9.14.1.2. Agreement with business owner to apply Photovoltaic Coatings.,

9.14.1.3. Description of business activity,

9.14.1.4. Identification of the period the Photovoltaic Coatings will be applied, including an estimate of start date, completion date and increments of progress,

9.14.1.5. An estimate of emissions from Photovoltaic Coatings during the period, including the calculations used, and

9.14.1.6. An estimate of materials used in gallons of Photovoltaic Coatings during the period.

**9.14.2 Notify U.S. EPA:** Any manufacturer or importer of a Photovoltaic Coating used in California shall notify U.S. EPA Region IX of any coating use that exceeded the applicable VOC limit identified in 40 CFR Part 59 Subpart D and shall comply with the requirements of 40 CFR Part 59 Subpart D, including, but not limited to, 40 CFR 59.403 exceedance fees, 59.407 recordkeeping requirements, and 59.408 reporting requirements.

**9.15 Reporting Requirements:**

**9.15.1 Sales Data:** Photovoltaic Coatings are subject to the reporting requirements provided in subsection 7.1 and 7.2.

**9.15.2 Annual Reports:** Anywhere Photovoltaic Coatings are applied to solar photovoltaic modules, the Coating Manufacturer must submit an annual report no later than March 31<sup>st</sup> to the local air district that includes, at the least:

9.15.2.1. Source name, location, contact and telephone,

9.15.2.2. Ownership status,

9.15.2.3. Description of business activity,

9.15.2.4. Identify the period the coatings were applied, including the start date, completion date and increments of progress,

9.15.2.5. The actual VOC emissions from Photovoltaic Coatings during the reporting period, including the calculations used, and

9.15.2.6. The actual gallons of Photovoltaic Coatings used during the reporting period.

**Table 3**  
**COATING VOLUME LIMITS FOR PHOTOVOLTAIC COATINGS**

<b><u>Air District*</u></b>	<b><u>Daily Volume Limit (Gallons)</u></b>	<b><u>Effective Date</u></b>
<u>Antelope Valley AQMD</u>	<u>27</u>	<u>7/1/2020 to 12/31/2027</u>
<u>Eastern Kern APCD</u>	<u>27</u>	<u>7/1/2020 to 12/31/2027</u>
<u>Imperial County APCD</u>	<u>27</u>	<u>7/1/2020 to 12/31/2027</u>
<u>Mojave Desert AQMD</u>	<u>27</u>	<u>7/1/2020 to 12/31/2027</u>
<u>Monterey Bay ARD</u>	<u>27</u>	<u>7/1/2020 to 12/31/2027</u>
<u>Sacramento Metropolitan AQMD</u>	<u>12.5</u>	<u>7/1/2020 to 12/31/2027</u>
<u>San Joaquin Valley APCD**</u>	<u>100**</u>	<u>7/1/2020 to 12/31/2027</u>
<u>San Luis Obispo County APCD</u>	<u>27</u>	<u>7/1/2020 to 12/31/2027</u>
<u>Santa Barbara County APCD</u>	<u>27</u>	<u>7/1/2020 to 12/31/2027</u>

\*Any air district not listed may incorporate the limits for Photovoltaic Coatings, provided the air district completes its own economic and environmental analyses.

\*\* An additional annual volume limit of 3,900 gallons per year is applicable in the San Joaquin Valley APCD.

This Page Intentionally Left Blank