

## TEST REPORT

### Toxicological analysis on Infill material

Tests performed according to ASTM F3188, EN 71-3 and CAM 17 standards

**Report Number** R20024US-B1

**Produit** TTII PlaySafe 65 Color Coated EPDM

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**Date** March 16<sup>th</sup>, 2020

*This report contains 3 pages in total. It replaces and cancels report R20024US-A1 and report R20024US-A2. Please delete the previous documents. Reproduction of this report is authorized only in its entire form. Results reported are valid only for the products tested. To declare the conformity (or not), the uncertainty of the results was not taken into account. Detailed results are available on request.*

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## INFORMATION

Product description	Green coated EPDM Infill			
Product name	TTII PlaySafe 65 Color Coated EPDM			
Sample number	Performance infill: US00342			
Date of reception	February 3 <sup>rd</sup> , 2020			
Date of tests	February 2020 - March 2020			
Temperature	MIN	70°F (21°C)	Max	73°F (23°C)
Humidity	MIN	48 %RH	Max	55 %RH

## RESULTS

### Toxicological analysis of Heavy Metals – EN 71-3 (migration):

Element	Units	Test method	Results	Requirements (Material of Category III)	Pass/Fail
Aluminium	mg/kg DW	EN 71-3	60	< 70 000	Pass
Antimony	mg/kg DW	EN 71-3	< 0.05	< 560	Pass
Arsenic	mg/kg DW	EN 71-3	< 0.05	< 47	Pass
Barium	mg/kg DW	EN 71-3	13.5	< 18 750	Pass
Boron	mg/kg DW	EN 71-3	< 0.25	< 15 000	Pass
Cadmium	mg/kg DW	EN 71-3	< 0.05	< 17	Pass
Cobalt	mg/kg DW	EN 71-3	< 0.05	< 130	Pass
Copper	mg/kg DW	EN 71-3	0.1	< 7 700	Pass
Lead	mg/kg DW	EN 71-3	< 0.25	< 23	Pass
Manganese	mg/kg DW	EN 71-3	2	< 15 000	Pass
Mercury	mg/kg DW	EN 71-3	< 0.005	< 94	Pass
Nickel	mg/kg DW	EN 71-3	< 0.25	< 930	Pass
Selenium	mg/kg DW	EN 71-3	< 0.25	< 460	Pass
Strontium	mg/kg DW	EN 71-3	3.5	< 56 000	Pass
Tin	mg/kg DW	EN 71-3	< 0.25	< 180 000	Pass
Zinc	mg/kg DW	EN 71-3	108	< 46 000	Pass
Chromium III	mg/kg DW	EN 71-3	2.5	< 460	Pass
Chromium VI	mg/kg DW	EN 71-3	< 0.05	< 0.053	Pass

### Toxicological analysis of Heavy Metals – ASTM F3188-16:

Element	Units	Test method	Results	Limits	Pass/Fail
Antimony	mg/kg DW	ASTM F3188-16	30	< 60	Pass
Arsenic	mg/kg DW	ASTM F3188-16	< 0.1	< 25	Pass
Barium	mg/kg DW	ASTM F3188-16	3	<1000	Pass
Cadmium	mg/kg DW	ASTM F3188-16	< 0.1	< 75	Pass
Chromium	mg/kg DW	ASTM F3188-16	8	< 60	Pass
Lead	mg/kg DW	ASTM F3188-16	< 5	< 90	Pass
Mercury	mg/kg DW	ASTM F3188-16	0.04	< 60	Pass
Selenium	mg/kg DW	ASTM F3188-16	< 0.1	< 500	Pass

## Toxicological Analysis of Heavy Metal - Cam 17:

Element	Units	Test method	Results	Requirements*	Pass/Fail
Antimony	mg/kg	EPA 6010	0.33	< 500	Pass
Arsenic	mg/kg	EPA 6010	< 0.25	< 500	Pass
Barium	mg/kg	EPA 6010	1.87	< 10 000	Pass
Beryllium	mg/kg	EPA 6010	< 0.25	< 75	Pass
Cadmium	mg/kg	EPA 6010	0.48	< 100	Pass
Chromium	mg/kg	EPA 6010	2.06	< 500	Pass
Cobalt	mg/kg	EPA 6010	2.09	< 8 000	Pass
Copper	mg/kg	EPA 6010	4.68	< 2 500	Pass
Lead	mg/kg	EPA 6010	0.67	< 1 000	Pass
Molybdenum	mg/kg	EPA 6010	0.64	< 3 500	Pass
Nickel	mg/kg	EPA 6010	0.59	< 2 000	Pass
Selenium	mg/kg	EPA 6010	< 0.25	< 100	Pass
Silver	mg/kg	EPA 6010	< 0.25	< 500	Pass
Thallium	mg/kg	EPA 6010	< 0.25	< 700	Pass
Vanadium	mg/kg	EPA 6010	0.85	< 2 400	Pass
Zinc	mg/kg	EPA 6010	3330	< 5 000	Pass
Mercury	mg/kg	EPA 7471B	< 0.1	< 20	Pass

\*requirements taken from California Code of Regulations §66261.24 – Characteristic of Toxicity

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