



# Technical Data Sheet

## XP-715-21



**STOCKMEIER**  
**URETHANES**

XP-715-21 is a water-based, aliphatic, one-component, polyurethane line-marking paint that is designed for synthetic sports and play surfaces where UV-stability, chemical resistance, abrasion resistance and flexibility are required. This product is free of solvents and isocyanates and exhibits low overspray during application.

As with any product, the use of XP-715-21 must be tested to determine the suitability of the product for the specific application. Field trials are strongly recommended prior to a large-scale application.

Type	Water-Based Aliphatic Polyurethane
Appearance	RAL 2010 Signal Orange
Cure Type	Single-Component

### Typical Properties at 68°F

Specific Gravity	ASTM D891		1.17
Density	ASTM D891	lbs/gal	9.76
Viscosity	ASTM D4889	cP	9,000
<sup>1</sup> VOC-Content	Calculated	g/L	0.20
<sup>2</sup> Taber Abrasion	ASTM D4060	mg	65
<sup>3</sup> Mar Fee	ASTMD5895	Hours	2 - 3

<sup>1</sup>Possible trace quantities from manufacturing processes

<sup>2</sup>3,000 cycles CS-17 Calibrase Wheel - 1,000 gram load

<sup>3</sup>250 micron film (10 mil) 68°F 50% RH

### Application

The recommended application thickness is 4–10 wet mils per coat (100–250 µm). At stated thickness, each gallon will cover ~155–390 sq. ft. Material consumption will depend on porosity and type of base layer.

Storage of this product at elevated temperatures will lead to a reduced viscosity and should be avoided.

The surface must be clean and dry prior to application. Appropriate results depend on the proper design of the track system. For details on application rates for the different surfaces, please review our system specifications.



### Precaution

Please read the SDS carefully before use. Prior to application, the user must read and become familiar with the risks and hazards associated with the use of this product. Adherence to the proper safety techniques cannot be overemphasized, including the proper use of Personal Protective Equipment (PPE).

### Cure Profile

Curing takes place at ambient temperature by water evaporation. A relative humidity of 40 – 80% is recommended for appropriate cure. Dry conditions and high temperatures will cause the material to dry more quickly whereas high humidity and lower temperatures will result in a longer dry time. The temperature should not fall below 50°F during application or the drying process.

### Processing

Prior to use, this product should be mixed for the minimum amount of time necessary to ensure uniform distribution of color/additives. Mix time will vary by age of material and degree of separation.

### UV-Stability

As with any urethane based on aliphatic materials, this product is UV-stable and will not show discoloration after exposure to direct sunlight. Mechanical properties are not impacted.

### Storage

This product must be protected against freezing and stored above 50°F. The ideal storage temperature is in the range of 59 – 77°F. Higher storage temperatures over a longer period of time can shorten the shelf life. The material should be stored in shaded areas when possible.

### Packaging

- 5-gallon pails
- 55-gallon drums

### Shelf-life

At ideal conditions, the material can be stored for up to six months in the original, unopened packaging. Partially used drums or totes should be used quickly.

For further details related to specific product usage, please contact your Stockmeier Urethanes representative.

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#### Notice:

This bulletin is provided for general informational purposes only and should not be construed as advice on specific product usage. The manufacturer makes no warranty of merchantability or of fitness for a particular purpose. The buyer assumes all liability for incorrect or illegal use of this product. For additional information please contact Stockmeier Urethanes USA, Inc at: (304) 624-7002  
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