

Technical Data Sheet

Ultracur3D[®] Coat F+

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Version No.: 1.3, revised 06/2023

General information

Components

Reactive Urethane Photopolymer for Flexible Applications.

Product Description

Ultracur3D[®] Coat F+ is a flexible waterborne basecoat for spray and dip coat applications designed to offer exceptional flexibility for elastic 3D Printing Materials. With its well-balanced properties, it enables a broad range of elastomer applications.

Delivery form & warehousing

Keep away from oxidising agents, from strongly alkaline and strongly acid materials. Keep container tightly closed. Never use pressure to empty; container is not a pressure vessel. Close containers carefully once opened and store upright in order to prevent any leakage. No smoking. Prevent unauthorized access. Isolate from sources of ignition and naked flames. Explosion protection measures are not necessary if under operating conditions the product is not heated above the flash point. Detailed information can be gained from the safety data sheets. Always keep in containers of same material as the original one. Observe label precautions. Store at 5 – 30 °C in a dry, well ventilated place. Protect from direct sunlight. Keep away from sources of ignition. Keep away from heat. If stored under the mentioned conditions, the photopolymer should be used within 6 months. For further instructions, please refer to the safety data sheet.

Product safety

Mandatory and recommended industrial hygiene procedures and the relevant industrial safety precautions must be followed whenever this product is being handled and processed. For additional information please consult the corresponding Material Safety Data Sheets (MSDS).

For your information

Ultracur3D[®] Coat F+ is currently available in Transparent, Jet Black, Pure White, Pure Red, Purple Violet, Grass Green, Canola Yellow, Light Blue, Signal Orange, Metallic Silver and Metallic Blue.

Notice

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed. The safety data given in this publication is for information purposes only and does not constitute a legally binding MSDS. The relevant MSDS can be obtained upon request from your supplier or you may contact BASF 3D Printing Solutions GmbH directly at sales@basf-3dps.com.

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General Properties	Specification	Typical Values
Form		Liquid
pH value	DIN EN ISO 3251	7.0 – 8.0
Supply Viscosity at 23°C, 1000 1/s	Spindle Viscometer (RM180)	50 - 180 mPas
Spray Viscosity		As supplied
Density at 23°C	DIN EN ISO 2811-3	1.0 - 1.3 g/cm ³
Solid content	DIN EN ISO 3251	34 - 48%
Theoretical material yield		330 – 390 m ² /kg/μm

Thermal Properties	Specification	Typical Values
Flashpoint	ISO 3679	> 95°C

Skin Contact	Specification	Typical Values
Cytotoxicity	ISO 10993-5 (2009)	Passed
In vitro Skin Irritation Testing	ISO 10993-10 (2013)	Passed
In vivo Sensitization Testing	ISO 10993-10 (2013)	Passed

Storage	Specification	Typical Values
Shelf life		6 months
Storage temperature		5 – 30°C

 Detailed material data and application support available on request (sales@basf-3dps.com).