



TECHNICAL DATASHEET

PRODUCT CODE: G-LEAF Coating 00901

PRODUCT DESCRIPTION

Graphene-based polyurethanic thinner for use in bi/multi-component paints

FUNCTIONAL ADDITIVES:

G-LEAF FEW-LAYER GRAPHENE *

APPLICATIONS

- Heat-dissipating coatings and films
- Aging protective coatings for different substrates
- Other uses where thermal management and/or substrate protection are required

BENEFITS

- Low product dosages enable significant improvements in one or multiple functionalities
- The product ensures plain compatibility with common paints dilutable with a polyurethanic thinner
- It ensures a straightforward ease of processing and integration in industrial processes and products
- It does not change the chemical and thermal stability of the host matrix, while maintaining or even improving its mechanical performances
- The as-formulated product improves the processability of graphene compared to the direct use of graphene dried powder, enhancing functional performances of the coating layer
- Provides a > 10% improvement in thermal conductivity of the coating layer when used as a 20 wt% diluent in PU paints

MATERIAL PROPERTIES

PHYSICAL PROPERTY	METHOD	VALUE/DESCRIPTION	UNITS
APPEARANCE	Visual	Dark grey dispersion	-
ODOUR		Typical aromatic	-
DENSITY	ASTM D1475	0.83 - 0.87	g/cm ³

*Produced by BeDimensional and compliant with ISO/TS 80004-13:2017 and ISO/TS 21356-1:2021



BEDIMENSIONAL
GRAPHENE AND 2D CRYSTALS

TYPICAL FORMULATION AND USAGE

G-LEAF Coating 00901 can be used in bi/multi-component systems to dilute bicomponent resin (polyacrylic, polyurethanic, epoxy, nitro) and in addition to hardener(s).

Shake well before use.

For spray coating: G-LEAF Coating 00901 should be used at a ratio of approximately 5:1 (Coating:Thinner) depending upon the application.

The thinned formulation should be stirred thoroughly and allowed to stand. The thinner should be added gradually until the desired spray pattern and coating wet thickness is achieved.

STORAGE

The product must be stored in accordance with national regulations. Keep the containers in a dry, cool, well-ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

The product is available in 125 g, 250 g, 500 g and 1000 g steel containers.

SAFETY PRECAUTIONS

Comply with all local safety, disposal and transportation regulations. Check the Safety Data Sheet (SDS) and label of the individual products carefully before using the products. The SDS are available on request.

TECHNICAL SUPPORT

Contact us regarding any questions, improvement suggestions, or problems with this product. More information can be found at www.bedimensional.com or upon request.

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