

Innovative formulas for women's apparel accessories inspired by Notan Art using Risen

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Abstract:

Recently, some new technologies and materials have emerged in various fields of design, such as Risen, the scientific name of which is epoxy. It is widespread recently to use Risen in many industries and construction works in the architectural field and in interior design and decoration works and in many different types of arts such as accessories for costumes and jewelry, but there are many issues related to the use of Risen, especially the difficulty of mixing it with different materials. The lack of references on synthetic resins and the lack of knowledge of their disadvantages. Therefore, it was necessary for designers to pay attention to these new materials, their characteristics, capabilities, and different methods of implementation, according to the needs of its users. Hence, designers tended to integrate epoxy with various suitable materials, which had a great impact in endowing these materials with many specifications that helped in raising their efficiency, enriching the design by adding an aesthetic touch and dazzling luster, and raising their technical value. By accessing the physical and chemical properties of epoxy through laboratory experiments, epoxy was utilized to obtain innovative formulas for complementing women's clothing. The researcher implemented 9 applications of epoxy and employed them in various forms of clothing accessories including earring, chain, bracelet, and medallion. The results of the research were: The researcher was able through the use of synthetic resin (epoxy) to add special and distinctive characteristics to the different materials, which added a distinctive aesthetic appearance, which also helped to extend the life of the product and emphasize its artistic value. The use of epoxy also added high quality in handicrafts, and a wonderful appearance and luster to the products, allowing them to be exported, thus introducing a distinctive and strong material to the market in many fields, especially the field of clothing and accessories. It was also great in the artwork to add many accessories and dried natural elements to add realism and a natural touch to the artwork, as well as adding colors, textures and different effects when casting to get a unique piece of art. Adding epoxy to any product enriches it and gives it luster and durability, but it is expensive, and when using it, safety precautions must be observed, especially for allergy sufferers, pregnant and lactating women, and children. Because it has a harmful effect on some, as a result of the rise of some invisible vapors with a semi-toxic effect on some.

Importance of research: The importance of the research lies in shedding light on how to combine different materials with Risen and the impact of using it to improve design efficiency and enrich the art piece that goes into its production. The research is also interested in employing the art of Notan as a source of innovative formulas for women's clothing accessories. Also, utilizing the epoxy material (Risen) in combination with different materials to create some innovative art pieces for women's clothing accessories.

Research goals: 1- Utilizing the art of Notan in the design of women's clothing accessories. 2- Utilizing the attributes of Notan art in the design of women's clothing accessories using epoxy. 3-To utilize epoxy to obtain innovative formulas for women's outerwear accessories.

4-Access the physical and chemical properties of epoxy through laboratory experiments. 5-To increase the dissemination of the art of Risen (epoxy resin) and increase awareness and interest in such art in all artistic fields.

Research Problem: The research issue is summarized as follows: 1- Lack of scientific research with a clear methodology in the field of epoxy (Risen) and its various applications. 2- The presence of some defects in

the common materials used in the various fields of plastic arts, so it is necessary to shed light on how to mix different materials with Risen, which increases its durability and durability and adds an aesthetic appearance to the piece of art, especially in clothing accessories. 3- The shortcomings in the use of synthetic resins in the fields of applied and plastic arts in Egypt and the absence of the process of mixing between materials, as found in clothing accessories.

Research methodology: The research methodology relies on the descriptive and analytical aspect, the applied and experimental approach, and the application of epoxy in the creation of some artworks.

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Resin (epoxy), hardener, tin art, natural resins, synthetic resins.

References:

- 1- Mohamed, Mohamed Abdel Basset, (2023). The Plastic Potential of Combining Epoxy and Wood as an Approach to Creating Wooden Jewelry, Drawing on the Philosophy of Plasticity in Postmodern Art. South-South Dialogue Magazine, Issue 16.
- 2- Sherif, Heba Hammam Ali. (2024). Epoxy as One of the Most Important New Resins in Applied Arts and Handicrafts (Resin Art). Journal of Arts and Applied Sciences, Vol. 11, No. 3.
- 3- Ragab Hilal Abdel Gawad et al. (2017). Utilizing Biotechnology and Biomaterials and Their Application in Industrial Design. Journal of Arts and Applied Sciences, Volume 4, Issue 2, April. Lu. S, (2024), " Solutions for Electrical Insulation with Epoxy Resins", sun Yat-sen University.
- 4- Rika. M, (2015), Jewelry Made by Epoxy Resin,
- 5- Epoxy Resin Guide For Beginners: The Step-By-Step Guide To Mastering , Techniques Resin Art Abdel Hafid
- 6- Hegazy. A, (2021), Benefiting from the Creation of Notan Art Designs in Training and Improving the Artistic Sense of Blind Women, Faculty of Home Economics - Al-Azhar University.
- 7- Geetika. G, (2024), LIGHT AND SHADOWS, Design Research, Fashion,
- 8- Koek. A, (2020), I realised I had ideas I couldn't produce by hand.', capucci heritage, (2024),
- 9- The art of Resin, Antonty Rocha, 30sep, 2021.
- 10- <http://arabian-chemistry.com> (8/2023)
- 11- <https://www.freeziana.com/article/> (7/2022)
- 12- <http://allwanz.com/resin-types-/uses> (5/2024)
- 13- <https://www.irisvanherpen.com/muse-moments> (7/2021)
- 14- <https://capucci.eu/en/heritage/> (5/2024)
- 15- <http://arabian-chemistry.com/> (2/2022)
- 16- <http://www.epoxy-world.com> (8/2021)
- 17- <https://www.scribd.com/doc/288337651/Jewelry-made-by-epoxy-resin> (2025)

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