Choosing the right material for QR code printing

To ensure the durability and readability of QR codes, it is essential to choose the appropriate printing material based on the environment in which they will be used. Each industry has specific requirements for resistance, print quality, and usage conditions, making it important to select a material that maintains the QR code's integrity over time.

Below are some common options by industry:

1. Manufacturing Industry

- **Durable polyester labels**: Ideal for industrial environments, offering durability and wear resistance.
- **Vinyl-coated labels**: Resistant to moisture, dust, and chemicals, making them suitable for demanding environments.
- **Thermal paper labels**: Suitable for products that are not exposed to extreme conditions.

2. Logistics and Transportation Sector

- **Polypropylene labels**: Scratch-resistant, waterproof, and weatherproof, perfect for tracking goods.
- **Reflective material labels**: Improve visibility in low-light environments.

3. Retail and Commercial Sector

- **Matte or glossy self-adhesive paper labels**: Perfect for products that require high-quality printing and presentation.
- **Flexible vinyl labels**: Withstand frequent handling while maintaining QR code readability.

4. Healthcare and Pharmaceutical Sector

- **Sterilization-resistant labels**: Materials such as polyester or polypropylene that can withstand sterilization processes without losing quality.
- **Indestructible ink labels**: Specially designed for environments where hygiene is crucial and labels must remain legible for long periods.

5. Food Industry

- **Moisture- and cold-resistant labels**: Materials such as polyethylene and vinyl ensure QR code integrity in humid or low-temperature environments.
- **Oil- and chemical-resistant ink labels**: Suitable for food products that may come into contact with these substances.

6. Energy and Telecommunications Industry

- **Aluminum or stainless steel labels**: Ideal for extreme temperature conditions or exposure to harsh chemicals.
- **Industrial vinyl labels**: Offer durability and resistance to harsh weather conditions.

Note

It is important to highlight that printing QR codes directly from **Fracttal One** is a **simplified option** provided by the application and **cannot be edited**. If any modifications or specialized printing are required, the **associated QR code URL** must be exported for use with **external label design and printing software**.