

Material Requirements List

The **Material Requirements page** allows you to review the materials needed for your purchases and directly generate the optimal purchases. You can access this page by selecting "**Tools & Settings**" in the main menu and then clicking on "**Requirements List**".

The interface is divided into two sections:

- **Left Side - Requirements List:**

Here you see all the materials required for your purchase. For each item, quantities, article information, and current stock levels are displayed. Additionally, you can select individual items to determine which materials should be included in the purchase suggestions.

- **Right Side - Purchase Suggestions:**

Based on the selected materials on the left, the system automatically generates an optimized compilation of purchases. The goal is to cover the entire material requirement while minimizing costs. Identical colors are combined, and the best combination of available suppliers and batch sizes is suggested.

The screenshot displays the 'Required Materials' interface. On the left, under 'Required Materials', there is a table with columns for 'COLOR', 'REQUIREMENT', and 'ORDER'. Two items are listed: RAL:7042 (GLÄNZEND - GLATT, 15.0 kg, Max Metal Inc. COATING) and RAL:7032 (GLÄNZEND - GLATT, 50.0 kg, Supra Parts Inc. COATING). On the right, under 'Purchase Suggestions', a 'TIGER' purchase is shown with a total of 672.20 €. It includes two items: 3 x 20 kg Box (20 kg) RAL 7032 Kieselgrau Glänzend Glatt RAL:7032 (173.20 €/pcs.) for 519.60 €, and 1 x 20 kg Box (20 kg) Primer Gray Glänzend Glatt RAL:7042 (152.60 €/pcs.) for 152.60 €. A 'Create Purchase' button is visible.

COLOR	REQUIREMENT	ORDER
RAL:7042 GLÄNZEND - GLATT	15.0 kg	Max Metal Inc. COATING
RAL:7032 GLÄNZEND - GLATT	50.0 kg	Supra Parts Inc. COATING

TIGER		Total: 672.20 €	Create Purchase
3 x 20 kg Box (20 kg) RAL 7032 Kieselgrau Glänzend Glatt RAL:7032	(173.20 €/pcs.)	519.60 €	
1 x 20 kg Box (20 kg) Primer Gray Glänzend Glatt RAL:7042	(152.60 €/pcs.)	152.60 €	

Optimization Algorithm

The material requirements are analyzed intelligently:

- Materials from different purchases are combined to avoid duplicate purchases.
- The purchase suggestions take into account the **optimal quantities** that **different suppliers** can deliver, resulting in **minimal total costs**.
- It is ensured that within one purchase, **the same color is not sourced from different suppliers**, ensuring consistency and deliverability.

Purchase from the Material Requirements

From the purchase suggestion list on the right, you can directly create purchases. This allows required materials to be purchased with just a few clicks, without manually compiling suppliers or articles.

Additional Features

- Low stock levels are displayed, allowing you to quickly identify which materials need to be repurchased.
- You can selectively remove or mark individual materials from the suggestions to customize purchases.

The Material Requirements page thus provides an **intelligent, cost-optimized overview** that allows you to control material flow while maximizing the efficiency of your purchases.

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