



# DuPont Alesta<sup>®</sup> UL Powder Coatings

## Ultra Low Bake coatings for MDF

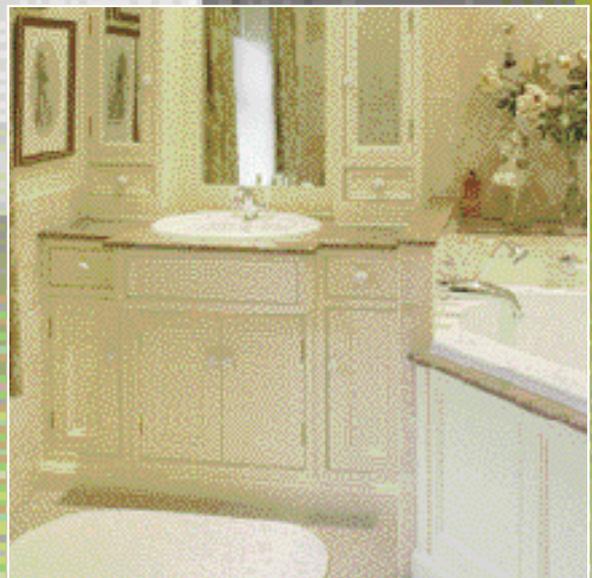


*The miracles of science*

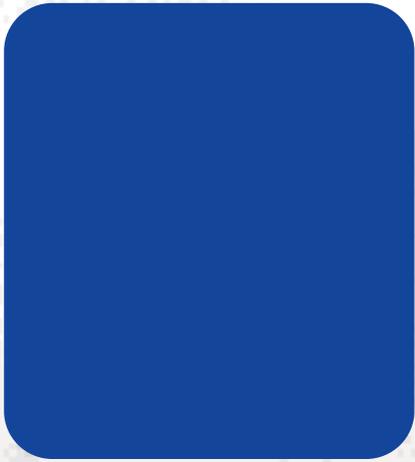
# DuPont Alesta<sup>®</sup> UL Powder Coatings

The introduction of Medium Density Fibre board (MDF) revolutionised the furniture industry. DuPont Alesta Ultra Low bake (UL) Powder Coatings are now destined to create new advantages for the MDF designer by removing some of the limitations previously thought to be inherent in this substrate. The advantages of powder coating over liquid coating are already well known – a rapid curing finish with excellent mechanical properties and chemical resistance, plus ease and economy in application.

Up to now the main limitation to consistently successful powder coating of MDF has been the difficulty in keeping the board temperature low enough during the curing process to prevent it drying out, with subsequent problems of cracking and splitting. Alesta UL powders are formulated to provide exceptionally fast or low-temperature cure, thus minimising thermal stress to the MDF.



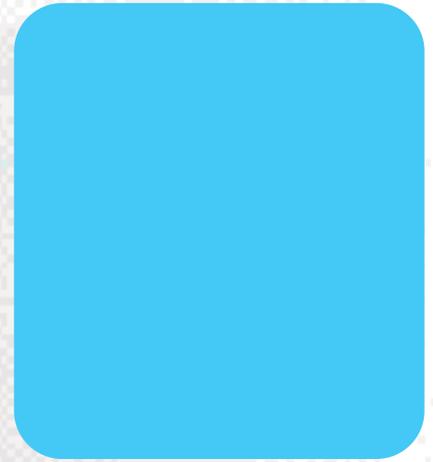
# Alesta® UL Powder Coatings allow low temperature



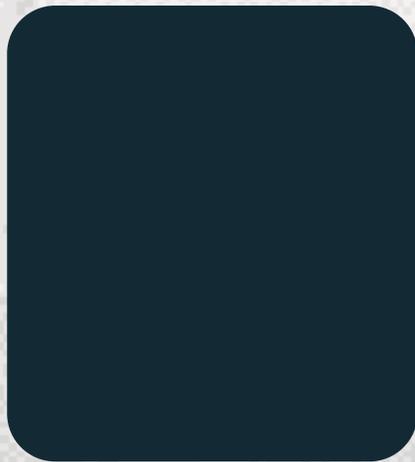
RAL 5002  
ULO300-5002123



ULO300-2000623



ULO300-5001923



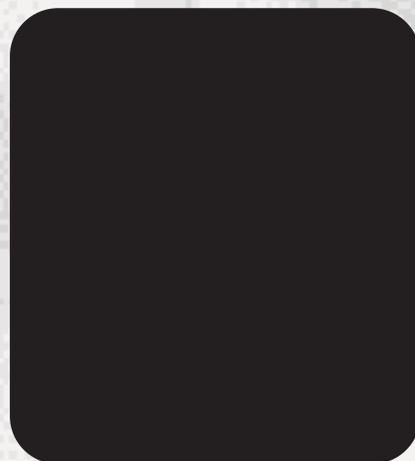
RAL 7021  
ULO300-7001023



ULO320-7002023



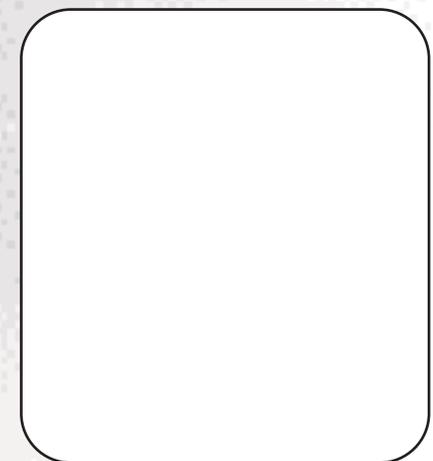
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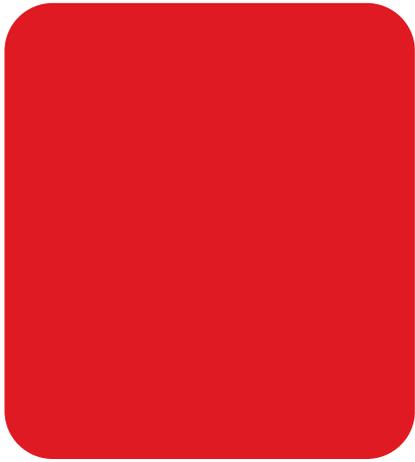


ULO330-7006423



ULO300-1002423

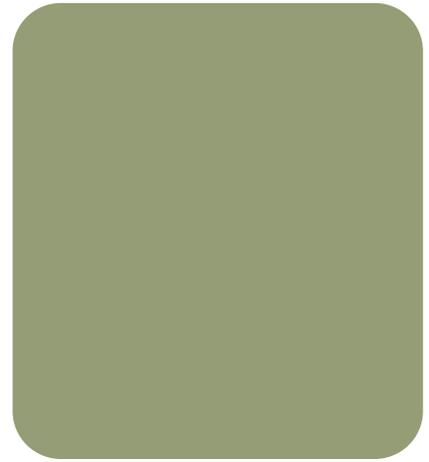
# curing on MDF



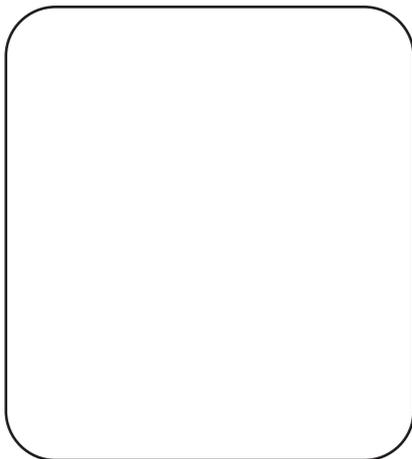
ULO300-3001923



ULO310-0004923



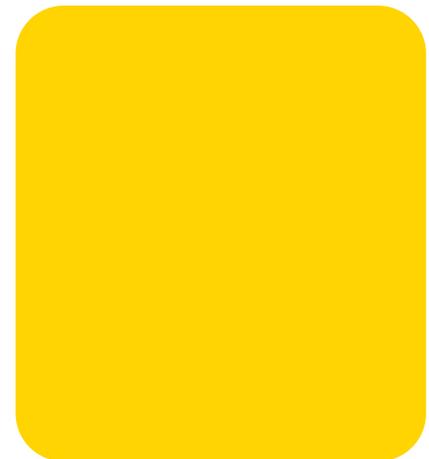
ULO300-6001523



RAL9016  
ULO300-9001823



RAL3020  
ULO300-3002023



RAL 1023  
ULO300-1002723

## Freedom of Design:

An almost limitless range of colours and metallic finishes can be provided; while the proven ability of powder to “wrap-around” complex shapes frees the designer from the constraints imposed by the use of foils and laminates.

The colours are representative of the current stock product range

For technical reasons associated with colour reproduction, shades on this chart may not exactly match the powder product



# Why Powder on MDF?

## Excellent Performance:

A high level of impact and scratch resistance plus edge protection is achieved through only a single layer coating. The coating also resists attack and staining by a range of foods, drinks and household cleaning agents.

## Ease of Application and Low Process Cost:

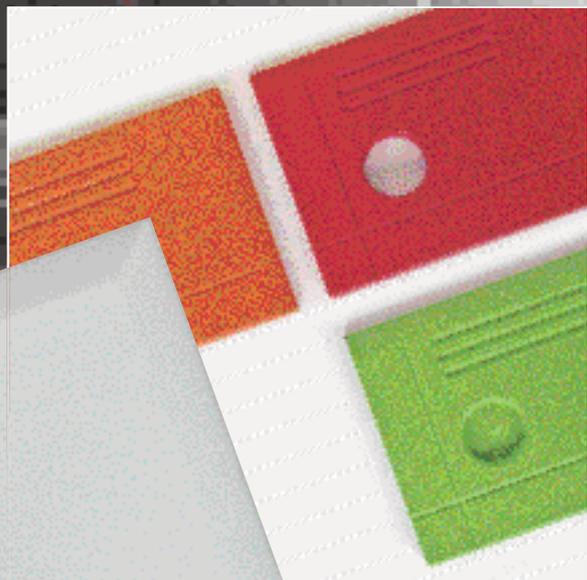
Easy spray application with material transfer efficiencies of up to 98% (because of the recovery and re-use of the overspray) substantially reduces the applied cost. Additionally, unlike liquid coatings, there is no waste treatment required. Compared to application of foils or laminates, material and labour costs are much lower

## No Issues with Volatile Organic Compounds:

Powder coatings are 100% solids, so no VOCs are evolved during the curing process.

## A Cleaner and Faster Production Process:

Powder is an environmentally friendly product with strong functional properties such as high impact and abrasion resistance, built in from the start.



**Learn more about how DuPont can be your Powder Coatings partner.**

To learn how DuPont Alest<sup>®</sup> UL Powder Coatings can help you make the most out of MDF  
telephone our Sales Office Direct on 01325 347000  
OR Fax us Direct on 01325 288997



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