



Bayer MaterialScience

# Dispercoll<sup>®</sup>S

## performance and function in water born adhesive formulations

CR based Contact Adhesives

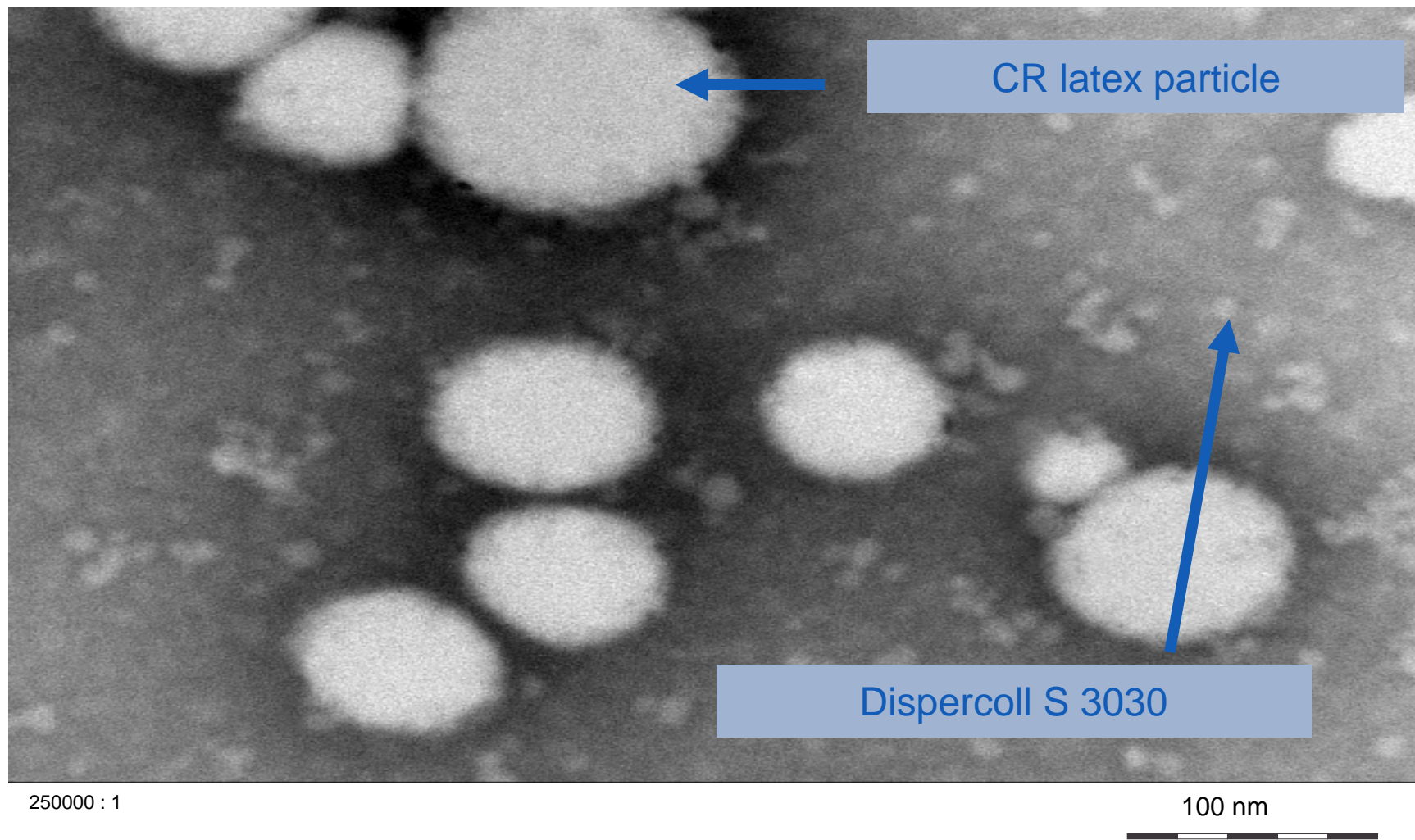
# Dispercoll® S



## Nano particle silica sol

- Amorphous silicon dioxide with silanol groups on the surface
- Alkaline stabilized
- Particle size 5-100 nm

# Dispercoll<sup>®</sup> S



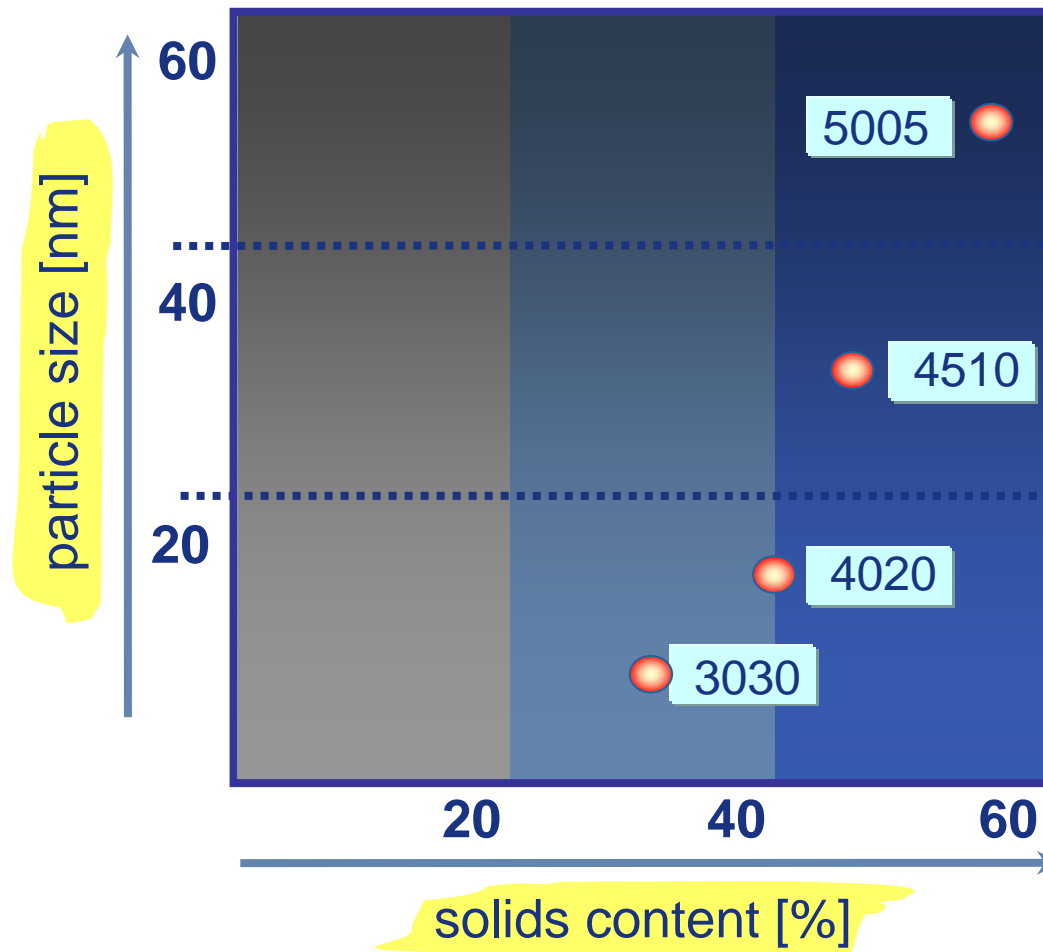
# Dispercoll® S Product range

---



**Transparency increases**

# Product Range



# Dispercoll® S

## Product range

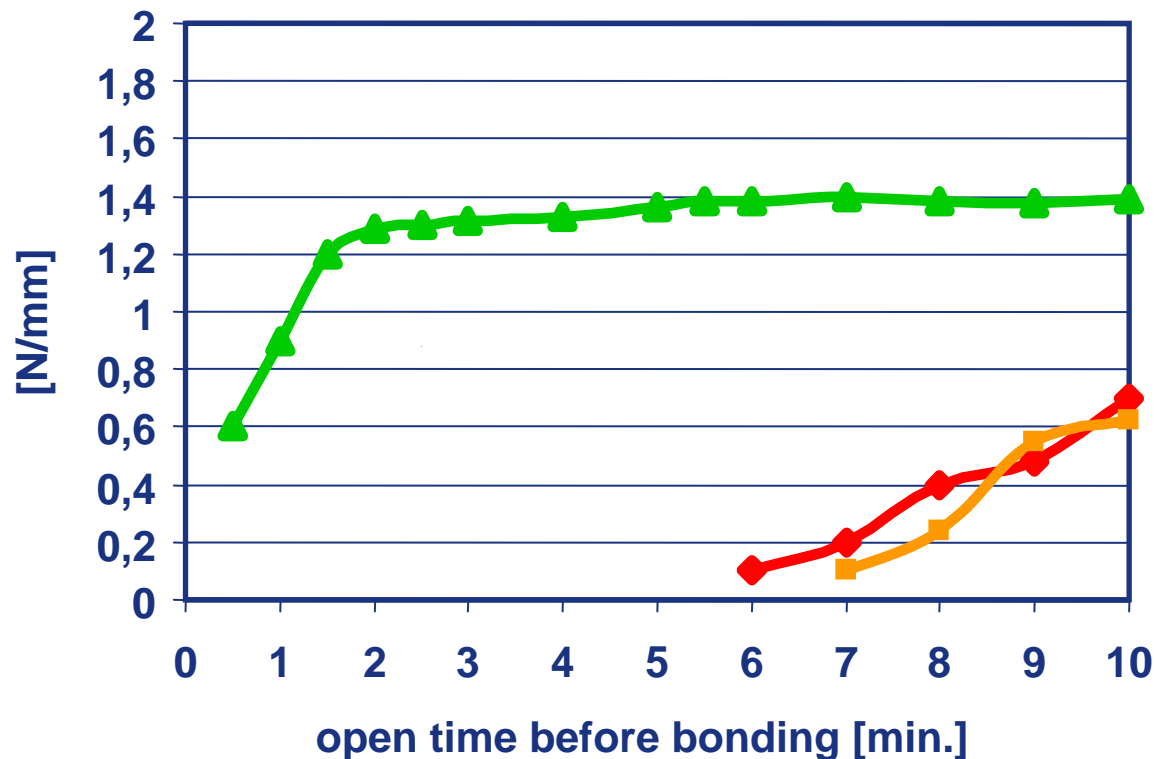
---

<b>Grade</b>	<b>Concentration (%)</b>	<b>density (g/cm<sup>3</sup>)</b>	<b>specific surface (m<sup>2</sup>/g)</b>	<b>p.-size (nm)</b>
<b>5005</b>	<b>50</b>	<b>1.39</b>	<b>50</b>	<b>55</b>
<b>4510</b>	<b>45</b>	<b>1.34</b>	<b>100</b>	<b>30</b>
<b>4020</b>	<b>40</b>	<b>1.295</b>	<b>200</b>	<b>15</b>
<b>3030</b>	<b>30</b>	<b>1.208</b>	<b>300</b>	<b>9</b>

# Dispercoll<sup>®</sup> C + Dispercoll<sup>®</sup> S Improvement of wet bonding

Initial peel strength on leather at various open times after applying

**Bonding process : dry at RT, bond under pressure (10 sec / 100N/cm<sup>2</sup> (4 bar))**



Dispercoll S 3030

Resin1\*

Resin2\*

Recipe	phr	phr
Dispercoll C 84	100	100
ZnO (Borchers 9802)	2	2
Rhenofit DDA-50	1	1
Dispercoll S 3030	10	0
Resin	0	10

Substrate: Leather

\*Terpenephenol resin

CR based Contact Adhesives

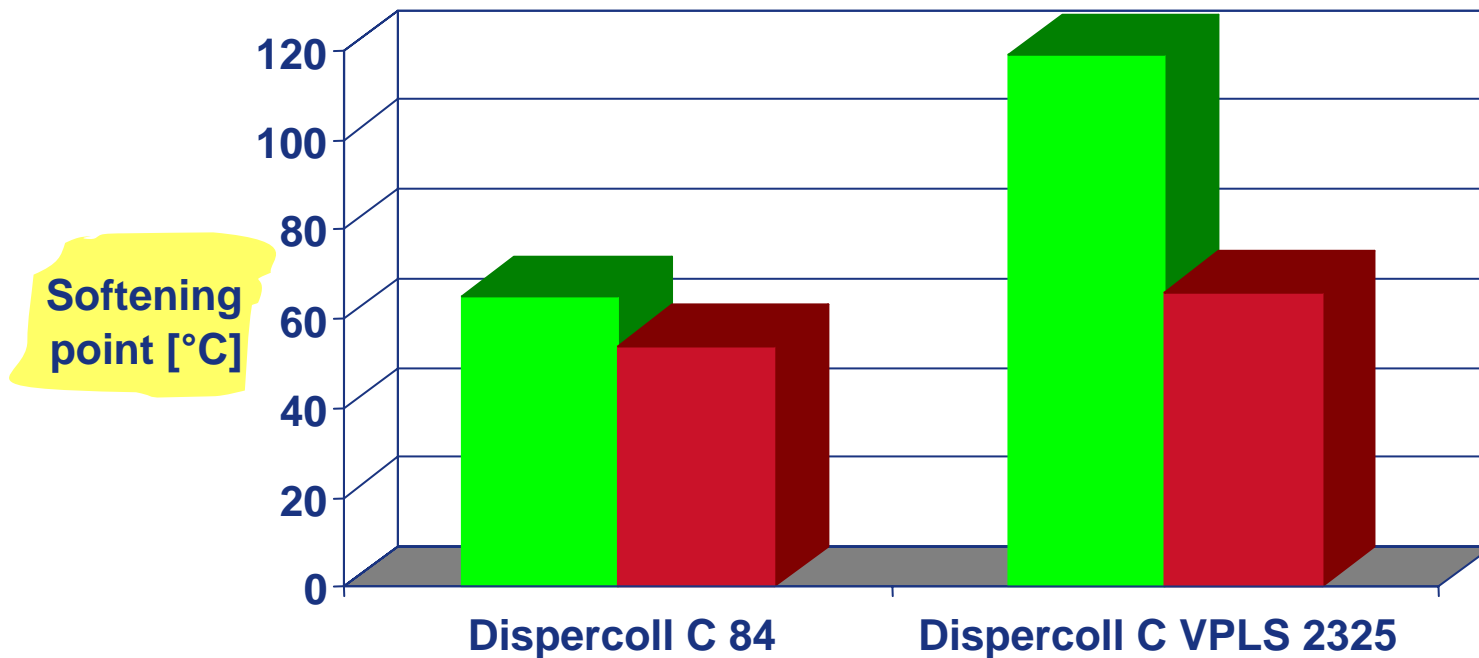


Bayer MaterialScience

# Dispercoll® C + Dispercoll® S Improvement of heat resistance

Substrate SBR rubber

■ Dispercoll S 3030 ■ Resin\*



\*Terpenephenol resin

Dispercoll S improves the softening point  
in particular with **Dispercoll C VPLS 2325**