

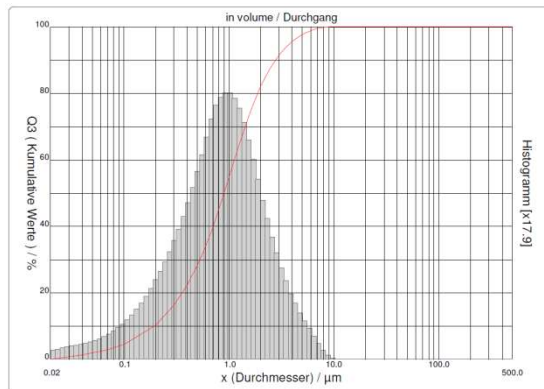
CASUL® PRINT

> Product Data Sheet:

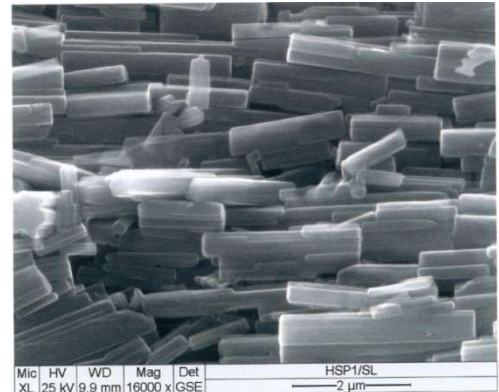
CASUL® PRINT is a highly concentrated CASUL® dispersion (slurry) with approx. 63% TS based on calcium aluminate sulfate. It is used primarily as a coating pigment for paper or board and as a multifunctional filler in papermaking.

> Chemical composition	
■ Chemical identification:	Calcium aluminate sulfate
■ Chem. formula:	$3 \text{ CaO} \times \text{Al}_2\text{O}_3 \times 3 \text{ CaSO}_4 \times 32 \text{ H}_2\text{O}$
■ CaO:	approx. 13,5 %
■ Al ₂ O ₃ :	approx. 8,0 %
■ Fe ₂ O ₃ :	< 0,1 %
■ Na ₂ O:	approx. 0,3 %
■ Dry matter:	approx. 60 – 64 % (measurement at 40°C)
■ Loss on ignition / Water of hydration:	45 %

> Technical data and properties			
■ Appearance:	white dispersion		
■ Crystal habit:	needle-like		
■ Spec. gravity:	approx. 1,4 g/cm ³ (20°C)		
■ pH value:	approx. 12		
■ Viskosität (Brookfield):	50 – 100 mPas (20°C)		
■ Gloss (Dr.Lange Reflectometer):	60°: approx. 25	85°: approx. 75	
■ Whiteness (R457 with UV):	> 95 %		
■ Lab-values:	L* = 98,0	a* = -0,20	b* = -0,10
■ CIE Whiteness with UV:	94		
■ Abrasion (AT 1000):	2,6 g/m ²		
■ Refractive index:	1,49		
■ Isoelectric point (IEP):	pH 9,3		
■ Particle size:	d ₁₀ = approx. 0,2 µm		
	d ₅₀ = approx. 0,9 µm		
	d ₉₀ = approx. 3,0 µm		



[Particle size measurement CASUL® PRINT (CILAS 1065; wet)]



[REM-scan CASUL® PRINT (16.000-x magnification)]

> Applications

■ Paperindustry

CASUL® PRINT is a concentrated dispersion (slurry) and is used as a coating pigment for paper and board. The surface of for example flexible packaging is thus improved in terms of look, feel and functionality.

CASUL® PRINT has a high hiding power (opacity), a high degree of whiteness and is characterized by natural adhesive properties (felting of needle-like crystals). Due to the needle-like shape and the high water content in the crystal matrix of over 45%, light, voluminous lines of high opacity and high whiteness are ensured.

CASUL® PRINT

- CASUL® PRINT is safe for contact with food according to ISEGA report (FDA approval)
- High gloss and smoothness potential and excellent printability
- CASUL® PRINT has a low abrasivity
- Antibacterial effect (no biocide required in coating colors)

Handling / Storage / Application

CASUL® PRINT can be stored in VA- or PE-plastic containers, aluminum or non-ferrous metals are unsuitable. It is preferably delivered in tank trucks and in containers of 1000 liters per each. Prior to use, the slurry must be homogenized by stirring. In storage tanks homogenization is required 2 to 3 times a day (homogenization in IBC 1 to 2 times a month). It should be stored frost-free and protected from direct sunlight

Es gelten die allgemeinen Geschäftsbedingungen der **REMONDIS** Production GmbH.