

# ESAMID, ESAPON and DEFOMEX

Formulation  
guidelines  
by Lamberti

# Special additives for boosting the performance of plasters and mortars

**ESAMID** is our whole product line of Starch Ethers Derivatives.

Starch Ethers improve wet adhesion and anti-slip property of fresh mortars and pastes. ESAMID allows users to obtain soft plasters when applied by hand or by spray machine.

The chemical modifications on the backbone of the polymer made it possible to use in the presence of alkaline conditions.

**ESAPON** is our powder surfactants applied as a wetting and air-entraining agents for dry mix products and pasty systems.

Powder Surfactants, by the introduction of the right quantity of air in the form of stable bubbles, they reduce the bulk density of heavy weight mortars.

ESAPON could be used as wetting and dispersing agents in the presence of coloured pigments and pastes in order to enhance the colour acceptance of the final rendering.

**DEFOMEX** product line is our anti-foaming agents in powder form.

Our antifoams prevent the introduction of air and removes foam during mixing at high speed of 1k and 2k mortar systems. DEFOMEX are suitable for all formulations that require high mechanical strength after the curing of cement and/or gypsum.

ESAMID  
ESAPON  
DEFOMEX



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PRODUCT	CHEMICAL	APPEARANCE	BROOKFIELD VISCOSITY / MAIN SPEC.	FEATURES & BENEFITS
<b>ESAMID - Natural Thickeners</b>				
<b>ESAMID HP</b>	Chemically modified starch	Whitish powder	300 - 700 mPa*s (5% w/w solution, 20°C, 20 rpm)	High thickening efficiency
<b>ESAMID NA</b>	Chemically modified starch	Whitish powder	800 - 1400 mPa*s (5% w/w solution, 20°C, 20 rpm)	Highly pseudoplastic . Suitable for anti slip and open time extension
<b>ESAMID TC</b>	Chemically modified starch	Whitish powder	2000 - 3000 mPa*s (5% w/w solution, 20°C, 20 rpm)	Very high thickening efficiency
<b>ESAMID P12</b>	Chemically modified starch	Whitish powder	800 - 1600 mPa*s (8% w/w solution, 20°C, 20 rpm)	Designed to give extended open time to joint fillers and adhesive mortar
<b>ESAMID S40</b>	Chemically modified starch	Ivory brown powder	1000 - 4000 mPa*s (5% w/w solution, 20°C, 20 rpm)	Highly pseudoplastic . Increase workability and final appearance
<b>ESAPON - Air entraining agents</b>				
<b>ESAPON 12/14 &amp; 1214/L</b>	Sodium alkyl sulphate	White powder	pH = 7 - 10,5 (1% sol.)	Air entraining agent with high foaming capability
<b>ESAPON 1850/C - 1851</b>	Ethoxylated fatty alcohol	White powder	pH = 6 - 8 (1% sol.)	Wetting agent; suitable for controlling air voids dimension
<b>DEFOMEX - Anti foaming</b>				
<b>DEFOMEX AP 122</b>	Hydrophobic silica and organic polymers in mineral oil	White powder	Ash = min. 53%	Defoamer with good price/performance ratio
<b>DEFOMEX AP 199</b>	Hydrophobic silica and organic polymers in mineral oil	White powder	Ash = min. 37% - Specific Weight = 0,4 - 0,6 g/mL	Highly efficient in preventing foam entraining
<b>DEFOMEX AP 488</b>	Ethoxylated fatty alcohol	White powder	Ash = min. 43% - Specific Weight = 0,4 - 0,6 g/mL	Highly efficient in removing foam
<b>Water Repellants</b>				
<b>CERFOBOL R/75</b>	Water emulsion of organic polymers	Whitish emulsion	max 100 cps (20°C, 100 rpm)	High water repellency and open time extender
<b>PARACEL S</b>	Stearates dispersion	Whitish emulsion	max 400 mPa*s (20°C, 100 rpm)	Efflorescence inhibitor
<b>Binders &amp; Special additives</b>				
<b>ESATEC 285</b>	Redispersible powder VA-AC	White powder	Specific weight = 0,5 ± 0,1 g/mL	Excellent powder binder for high tensile strenght
<b>ESATEC 310H</b>	Anionic acrylic co-polymer	White powder	Specific weight = 0,8 ± 0,1 g/mL	Viscosity adjustment aid
<b>ESATEC 194</b>	Fine PVA powder	White powder	Particle size = 99,9% passing through 50 MESH	Very good adhesion promoter
<b>ESATEC RFG 10</b>	Amino-acid based polymer	Whitish powder	Setting time at 0,05% = 60 - 120 minutes - Setting time at 0,2% = 180 - 300 minutes	Fast setting retardant for gypsum

PRODUCT	GYPSUM							CEMENT					CEMENT													PASTE & LIQUID SYSTEM												
	plaster & levelling compounds	skim coat	joints filler	joint compound	adhesive	self-levelling	plasterboard	plaster	skim coat	tile adhesive	grout	self-levelling overlay	self-levelling screed	thermal insulation system	bricks mortar	Water Proof Systems	Concrete	coloured rendering	skim coat	joint compound	siloxane and silicate paste	paste putty	paste adhesive	waterproof elastomeric membrane	primer	anticarbonation	top coat surface											
<b>ESAMID HP</b>	•	•			•			•	•				○																									
<b>ESAMID NA</b>	•	•			•			•	•				○																									
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<b>ESAMID P12</b>	•	○	•	•	•															•																		
<b>ESAMID S40</b>	•	•	○																•																			
<b>ESAPON 12/14 &amp; 1214/L</b>	•							•							•		•																					
<b>ESAPON 1850/C - 1851</b>	•	•						•	•						•		•	•			•																	
<b>DEFOMEX AP 122</b>		○				•			○		•	•	•																									
<b>DEFOMEX AP 199</b>		○				•			○		•	•	•																									
<b>DEFOMEX AP 488</b>		○				•			○		•	•	•																									
<b>CERFOBOL R/75</b>																		•			○																	
<b>PARACEL S</b>																																						
<b>ESATEC 285</b>		•	•	•	•				•	•	•								•	•																		
<b>ESATEC 310H</b>	○	○	•	•	•			○	○	•				○	○				•	•		•	•															
<b>ESATEC 194</b>			•	•	•				○	○										•																		
<b>ESATEC RFG 10</b>	○	•	•	•	•	•																																





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