

ADrecipe

Managing
Recipes and Reports

adpap

ADrecipe is a tool above process control system. Main functions of the system are Recipe and Reporting.

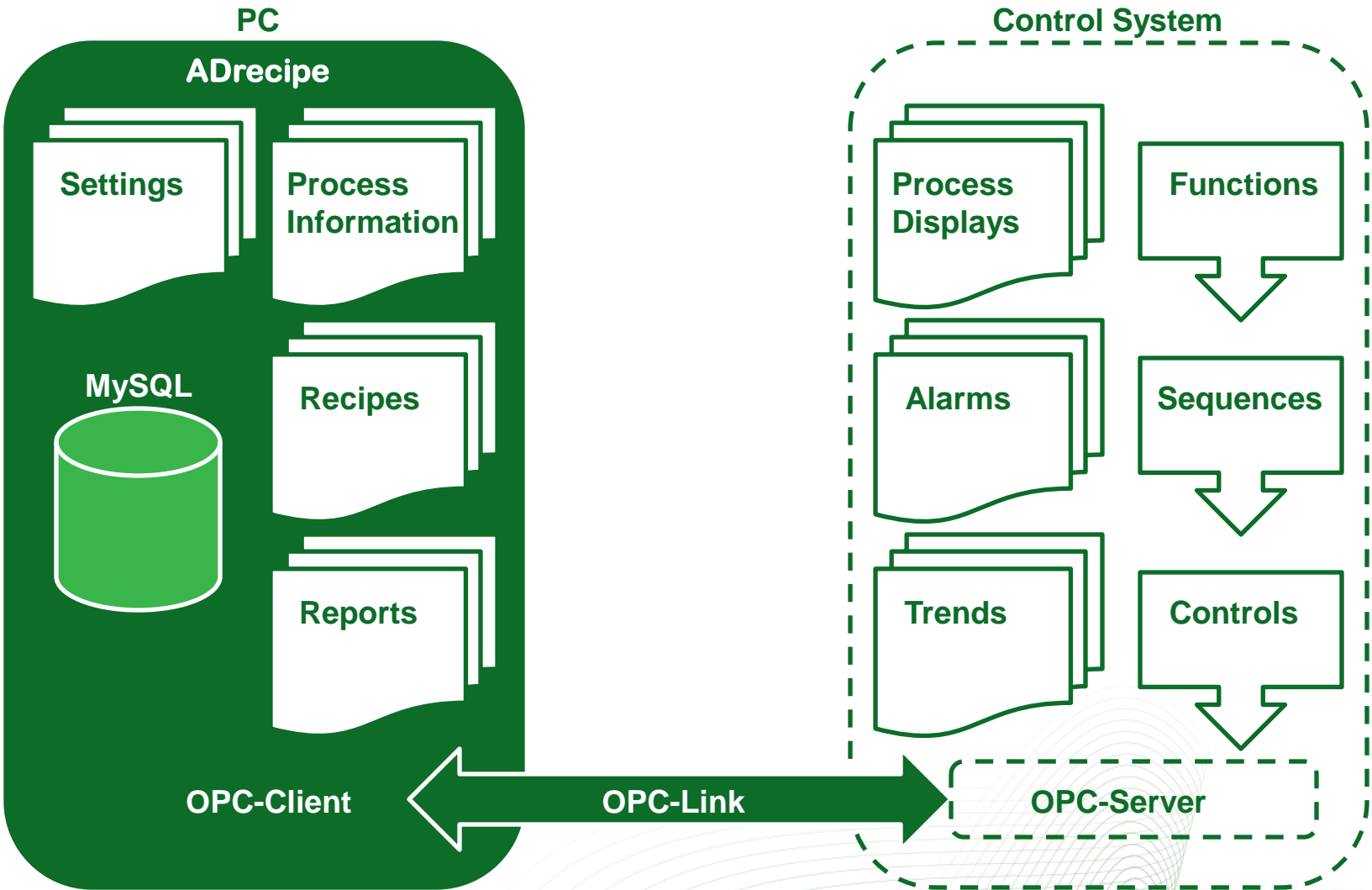
Ingredient, Production Unit and Process Cell functions are made for supporting the Recipe function.

After a recipe is created and calculated, it is loaded to control system. The preparation of product is made in batch or continuous type of process.

Production is monitored with Reporting function. All production is stored in database. Reports of production and consumption are available for years.

ADrecipe is a browser based software and it can be used without additional installation at any work station connected to factory net.

Advanced Devised recipe
ADrecipe



Navigation to Functions

ADrecipe

After user log in the system, navigation to a function is made from Main Menu. Navigation from function to another one is made from the Menu Bar.

ADrecipe

MainMenu



ADrecipe

Ingredients

Ingredient	Unit	Value	Unit	Value	Unit	Value	Unit	Value
Ingredient 1	kg	10	kg	10	kg	10	kg	10
Ingredient 2	kg	10	kg	10	kg	10	kg	10
Ingredient 3	kg	10	kg	10	kg	10	kg	10
Ingredient 4	kg	10	kg	10	kg	10	kg	10
Ingredient 5	kg	10	kg	10	kg	10	kg	10
Ingredient 6	kg	10	kg	10	kg	10	kg	10
Ingredient 7	kg	10	kg	10	kg	10	kg	10
Ingredient 8	kg	10	kg	10	kg	10	kg	10
Ingredient 9	kg	10	kg	10	kg	10	kg	10
Ingredient 10	kg	10	kg	10	kg	10	kg	10

ADrecipe

Production Units

Production Unit	Unit	Value	Unit	Value	Unit	Value	Unit	Value
Production Unit 1	kg	10	kg	10	kg	10	kg	10
Production Unit 2	kg	10	kg	10	kg	10	kg	10
Production Unit 3	kg	10	kg	10	kg	10	kg	10
Production Unit 4	kg	10	kg	10	kg	10	kg	10
Production Unit 5	kg	10	kg	10	kg	10	kg	10
Production Unit 6	kg	10	kg	10	kg	10	kg	10
Production Unit 7	kg	10	kg	10	kg	10	kg	10
Production Unit 8	kg	10	kg	10	kg	10	kg	10
Production Unit 9	kg	10	kg	10	kg	10	kg	10
Production Unit 10	kg	10	kg	10	kg	10	kg	10

ADrecipe

Process Cells

Process Cell	Unit	Value	Unit	Value	Unit	Value	Unit	Value
Process Cell 1	kg	10	kg	10	kg	10	kg	10
Process Cell 2	kg	10	kg	10	kg	10	kg	10
Process Cell 3	kg	10	kg	10	kg	10	kg	10
Process Cell 4	kg	10	kg	10	kg	10	kg	10
Process Cell 5	kg	10	kg	10	kg	10	kg	10
Process Cell 6	kg	10	kg	10	kg	10	kg	10
Process Cell 7	kg	10	kg	10	kg	10	kg	10
Process Cell 8	kg	10	kg	10	kg	10	kg	10
Process Cell 9	kg	10	kg	10	kg	10	kg	10
Process Cell 10	kg	10	kg	10	kg	10	kg	10

ADrecipe

Recipes

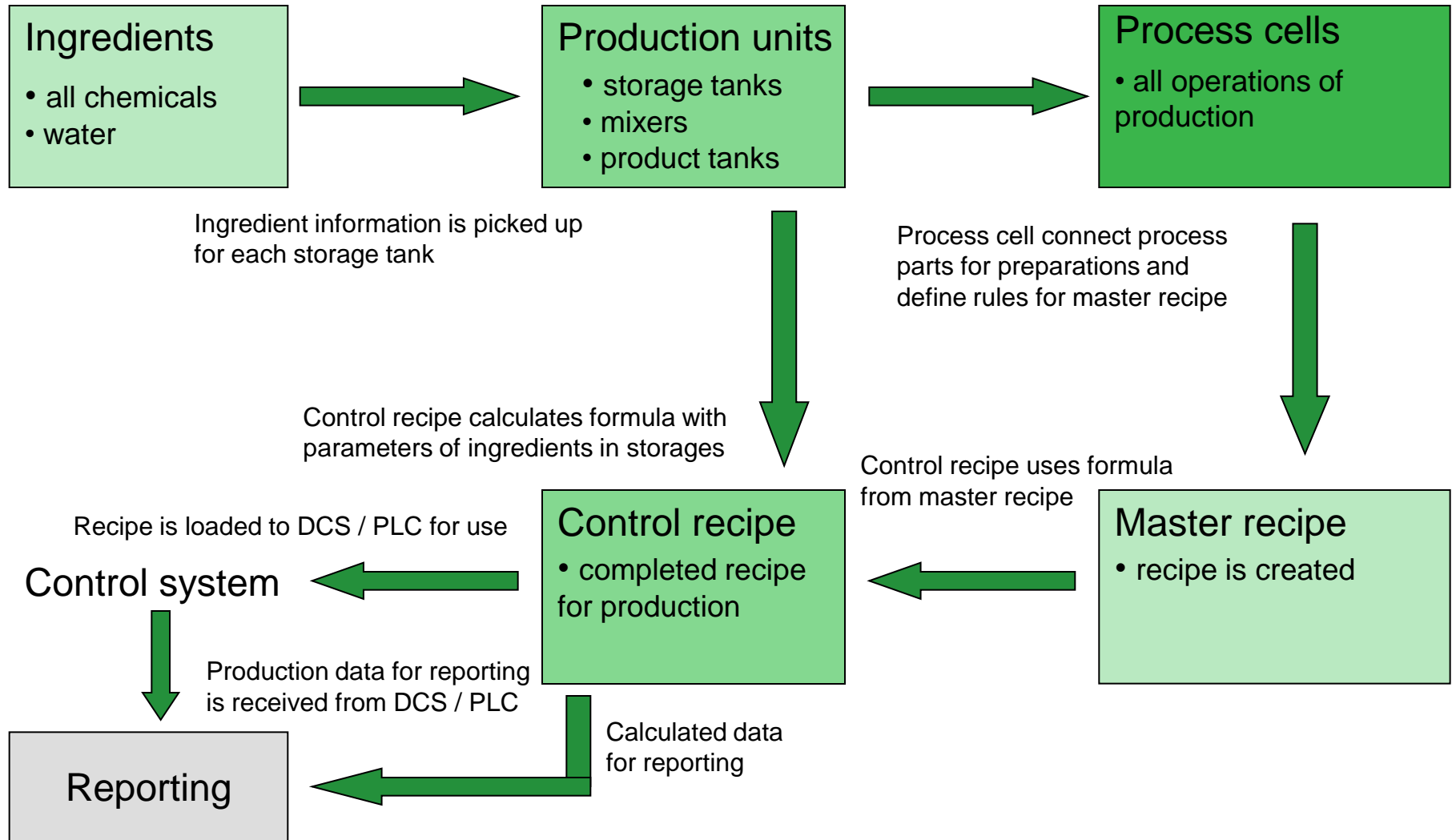
Recipe	Unit	Value	Unit	Value	Unit	Value	Unit	Value
Recipe 1	kg	10	kg	10	kg	10	kg	10
Recipe 2	kg	10	kg	10	kg	10	kg	10
Recipe 3	kg	10	kg	10	kg	10	kg	10
Recipe 4	kg	10	kg	10	kg	10	kg	10
Recipe 5	kg	10	kg	10	kg	10	kg	10
Recipe 6	kg	10	kg	10	kg	10	kg	10
Recipe 7	kg	10	kg	10	kg	10	kg	10
Recipe 8	kg	10	kg	10	kg	10	kg	10
Recipe 9	kg	10	kg	10	kg	10	kg	10
Recipe 10	kg	10	kg	10	kg	10	kg	10

ADrecipe

Production Report

Production Report	Unit	Value	Unit	Value	Unit	Value	Unit	Value
Production Report 1	kg	10	kg	10	kg	10	kg	10
Production Report 2	kg	10	kg	10	kg	10	kg	10
Production Report 3	kg	10	kg	10	kg	10	kg	10
Production Report 4	kg	10	kg	10	kg	10	kg	10
Production Report 5	kg	10	kg	10	kg	10	kg	10
Production Report 6	kg	10	kg	10	kg	10	kg	10
Production Report 7	kg	10	kg	10	kg	10	kg	10
Production Report 8	kg	10	kg	10	kg	10	kg	10
Production Report 9	kg	10	kg	10	kg	10	kg	10
Production Report 10	kg	10	kg	10	kg	10	kg	10

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Ingredients

Production Units

Process Cells

Recipes

Reports

Settings

Help

Log out

Ingredients

+ New Ingredient

Chemical Name	Commercial Name	Type	Phase	Solid Content	Density	Temperature
		All	All	%	%	°C
Biocide 1	Biocide 1	Other	Liquid	100	0.95	20
Biocide 2	Biocide 2	Other	Liquid	100	0.95	20
Ca-stearate	Ca-stearate	Other	Liquid	50	1.03	20
CaCO3 60	CaCO3 60	Main Ingredient	Liquid	75	1.86	20
CaCO3 90	CaCO3 90	Main Ingredient	Liquid	75	1.86	20
Clay 1	Nuclay	Main Ingredient	Liquid	72	1.81	20
Clay 1 powder	Nuclay powder	Main Ingredient	Solid	95	0.75	20
Clay 2	Miragloss	Main Ingredient	Liquid	72	1.81	20
Clay 2 powder	Miragloss powder	Main Ingredient	Solid	95	0.75	20
CMC	CMC	Other	Liquid	10	1.01	50
CMC powder	CMC powder	Main Ingredient	Solid	92	0.65	20
Delaminated Clay	D Clay 1	Main Ingredient	Liquid	71	1.79	20
Dispersant	Dispersant	Other	Liquid	42	1.32	20
Dye 1	Dye 1	Other	Liquid	2	1	20
Dye 2	Dye 2	Other	Liquid	2	1	20
Hardener	Hardener	Other	Liquid	46	1.2	20
Latex 1	Latex 1	Other	Liquid	50	1.02	20
Latex 2	Latex 2	Other	Liquid	50	1.02	20
Latex 3	Latex 3	Other	Liquid	50	1.02	20
NaOH	NaOH	Other	Liquid	10	1.07	20
NaOH 32 %	NaOH	Other	Liquid	32	1.28	20
OBA	OBA	Other	Liquid	100	1.2	20
Plastic pigment	Plastic pigment	Other	Liquid	50	1.03	20
Reclaim Colour		Other	Liquid	60	1.49	20
Starch	Starch	Other	Liquid	30	1.13	20
Starch powder	Starch powder	Main Ingredient	Solid	86	0.65	20
Steam	Steam	Steam	Gas	0	0	20
Thickener	Thickener	Other	Liquid	30	1.11	20
Warm water	Warm water	Water	Liquid	0	1	20
Water	Water	Water	Liquid	0	1	20

AD

Ingredients

Calculation

Ingredients with properties are stored in Ingredient Library.

Ingredient name type can be selected. System shows either chemical name or commercial name for ingredient.

ADrecipe							Help	Log out						
Ingredient		Production Units	Process Cells	Recipes	Reports	Settings								
← Ingredient														
<div>Save</div> <div>Copy</div> <div>Calc.Solid Cont.</div> <div>Remove</div>		System Name	CLAY1											
		Chemical Name	Clay 1											
		Commercial Name	Nuclay											
		Type	Main Ingredient											
		Phase	Liquid											
		Solid Content	72	%										
		True Density	2.64	kg/dm³										
		Density	1.81	kg/dm³										
		Temperature	20	°C										
		Viscosity	0											
		Heat cap.	0											
		Price	0	€/kg										

ADrecipe

IngredientsProduction UnitsProcess CellsRecipesReportsSettings

Production UnitsComm. Error: No connection!

New Production Unit

Save

Name	Ingredient	Unit Type	Ingredient Type	Phase	Solid Content	Density	Temperature
		All	All	All	%	%	°C
DRAIN0119		Product Tank	Other	Liquid	0	0	0
DRAIN0815		Product Tank	Other	Liquid	0	0	0
DRAIN0821		Product Tank	Other	Liquid	0	0	0
E0710	Biocide 1	Raw Material Storage	Other	Liquid	100	0.95	20
E0712	Biocide 2	Raw Material Storage	Other	Liquid	100	0.95	20
E0904		Mixer	Other	Liquid	0	0	0
FWL	Water	Utility Line	Water	Liquid	0	1	20
S35L	Steam	Utility Line	Steam	Gas	0	0	0
T0102	Clay 1 powder	Silo	Main Ingredient	Solid	95	2.44	
T0105	Clay 2 powder	Silo	Main Ingredient	Solid	95	2.44	
T0107		Mixer	Other	Liquid	0	0	
T0108		Intermediate Tank	Other	Liquid	72	0	
T0111	Clay 1	Semi Product Tank	Main Ingredient	Liquid	69	1.75	
T0113	Clay 2	Semi Product Tank	Main Ingredient	Liquid	72	1.81	
T0202	CaCO3 60	Raw Material Storage	Main Ingredient	Liquid	75	1.86	
T0204	CaCO3 90	Raw Material Storage	Main Ingredient	Liquid	75	1.86	
T0302	Latex 1	Raw Material Storage	Other	Liquid	50	1.02	
T0305	Latex 2	Raw Material Storage	Other	Liquid	50	1.02	
T0308	Latex 3	Raw Material Storage	Other	Liquid	50	1.02	
T0311	Plastic pigment	Raw Material Storage	Other	Liquid	50	1.03	
T0402	Starch powder	Silo	Main Ingredient	Solid	86	1.51	

Storage tanks , utility lines , mixers and production tanks are all Production Units.
Ingredients are located in Production Units.
Content of a Production Unit can be easily changed.

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IngredientsProduction UnitsProcess CellsRecipesReportsSettings

Production Unit

System Name

T0801

Name

T0801

Unit Type

Mixer

Ingredient Type

Other

Phase

Liquid

Save

Remove

Incoming Lines

Charging line from	Ingredient	Equipment	Measurement	Min Capacity	Max Capacity	Overshoot
				dm³/min	kg/min	kg
E0710	Biocide 1	HS0724	-	0	2.85	0.1
FWL	Water	HS0802	-	0	660	17
T0111	Clay 1	HS0132	-	0	720	24
T0113	Clay 2	HS0128	-	0	720	22.5
T0202	CaCO3 60	HS0215	-	0	720	19
T0204	CaCO3 90	HS0221	-	0	720	20
T0302	Latex 1	HS0322	-	0	720	13
T0305	Latex 2	HS0319	-	0	720	21
T0308	Latex 3	HS0316	-	0	720	19.5
T0311	Plastic pigment	HS0313	-	0	400	11
T0405	Starch	HS0412	-	0	160	2.2
T0505	CMC	HS0512	-	0	160	1.3

Outgoing Lines

Equipment	Outgoing line to
HS0822	T0812
HS0821	DRAIN0821
HS0820	T0810
HS0819	T0809
HS0818	T0807
HS0817	T0806
HS0816	T0804
HS0815	DRAIN0815
HS0814	T0814

Incoming lines and outgoing lines connect Production Units to each other.

Process Cells

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ADrecipe Ingredients Production Units **Process Cells** Recipes Reports Settings Help Log out

Process Cell

System Name
COATINGCOLOURPREP

Name
Coating Colour Preparation

Cell Type
Batch

Max Solid Content %
75

Max Capacity dm³
12200

Min Capacity dm³
7300

Save

Remove

Recipe Phases

Available Ingredients

Biocide 1
Ca-stearate
CaCO3 60
CaCO3 90
Clay 1
Clay 2
CMC
Dispersant
Dye 1
Dye 2
Hardener
Latex 1
Latex 2
Latex 3
NaOH
NaHA

Operations

<input type="checkbox"/> Agitator fast
<input type="checkbox"/> Agitator slow
<input type="checkbox"/> Agitator speed
<input checked="" type="checkbox"/> Agitator start
<input checked="" type="checkbox"/> Agitator stop
<input checked="" type="checkbox"/> Heating
<input checked="" type="checkbox"/> Mixing time
<input checked="" type="checkbox"/> Pause

Process Cell Structure

Destinations

DRAIN0815
DRAIN0821
T0804
T0806
T0807
T0809
T0810
T0812

Mixers

T0801
T0802
T0803

Charging Lines

E0710
FVL
T0111
T0113
T0202
T0204
T0302
T0305
T0308
T0311
T0405
T0505
T0601
T0604
T0607
T0641

ADrecipe Ingredients Production Units **Process Cells** Recipes Reports Settings Help Log out

Select Ingredients

Save

Cancel

Name	Ingredient
<input checked="" type="checkbox"/>	Biocide 1
<input checked="" type="checkbox"/>	Biocide 2
<input checked="" type="checkbox"/>	Ca-stearate
<input checked="" type="checkbox"/>	CaCO3 60
<input checked="" type="checkbox"/>	CaCO3 90
<input checked="" type="checkbox"/>	Clay 1
<input checked="" type="checkbox"/>	Clay 1 powder
<input checked="" type="checkbox"/>	Clay 2
<input checked="" type="checkbox"/>	Clay 2 powder
<input checked="" type="checkbox"/>	CMC
<input checked="" type="checkbox"/>	CMC powder
<input checked="" type="checkbox"/>	Determined Clay
<input checked="" type="checkbox"/>	Dispersant
<input checked="" type="checkbox"/>	Dye 1
<input checked="" type="checkbox"/>	Dye 2
<input checked="" type="checkbox"/>	Hardener
<input checked="" type="checkbox"/>	Latex 1
<input checked="" type="checkbox"/>	Latex 2
<input checked="" type="checkbox"/>	Latex 3
<input checked="" type="checkbox"/>	NaOH
<input checked="" type="checkbox"/>	NaOH 32 %
<input checked="" type="checkbox"/>	NaHA
<input checked="" type="checkbox"/>	Plastic pigment
<input checked="" type="checkbox"/>	Reclean Colour
<input checked="" type="checkbox"/>	Starch
<input checked="" type="checkbox"/>	Starch powder
<input checked="" type="checkbox"/>	Swan
<input checked="" type="checkbox"/>	Thickener
<input checked="" type="checkbox"/>	Warm water

ADrecipe Ingredients Production Units **Process Cells** Recipes Reports Settings Help Log out

Select Production Unit

Save

Cancel

Name	Ingredient	Unit Type
Determined Clay 1	Determined Clay	Raw Material Storage
E0710	Biocide 1	Raw Material Storage
E0712	Biocide 2	Raw Material Storage
FVL	Water	Utility Line
S35L	Steam	Utility Line
T0102	Clay 1 powder	Silo
T0105	Clay 2 powder	Silo
T0111	Clay 1	Semi Product Tank
T0113	Clay 2	Semi Product Tank
T0202	CaCO3 60	Raw Material Storage
T0204	CaCO3 90	Raw Material Storage
T0302	Latex 1	Raw Material Storage
T0305	Latex 2	Raw Material Storage
T0308	Latex 3	Raw Material Storage
T0311	Plastic pigment	Raw Material Storage
T0405	Starch powder	Silo
T0405	Starch	Semi Product Tank
T0505	CMC	Silo
T0505	CMC powder	Semi Product Tank
T0601	Thickener	Raw Material Storage
T0604	Ca-stearate	Raw Material Storage
T0607	Hardener	Raw Material Storage
T0610	NaOH	Raw Material Storage
T0611	Dye 1	Raw Material Storage
T0614	Dye 2	Raw Material Storage
T0617	Dispersant	Raw Material Storage
T0618	Reclean Colour	Semi Product Tank
T0619	NaOH 32 %	Raw Material Storage
T0620	NaOH	Semi Product Tank

Structure of process is created in Process Cell.
Process Cell gives limits for recipe.
Batch and Continuous preparations are available.

ADrecipe Ingredients Production Units **Process Cells** Recipes Reports Settings Help Log out

Select Production Unit

Save

Cancel

Name	Ingredient	Unit Type
DRAIN0815		Product Tank
DRAIN0821		Product Tank
DRAIN0821		Product Tank
T0111	Clay 1	Semi Product Tank
T0113	Clay 2	Semi Product Tank
T0405	Starch	Semi Product Tank
T0405	CMC	Semi Product Tank
T0604		Product Tank
T0606		Product Tank
T0607		Product Tank
T0609		Product Tank
T0610		Product Tank
T0612		Product Tank
T0614	Reclean Colour	Semi Product Tank
T0615	NaOH	Semi Product Tank

ADrecipe Ingredients Production Units **Process Cells** Recipes Reports Settings Help Log out

Select Production Unit

Save

Cancel

Name	Ingredient	Unit Type
E0904		Mixer
T0102		Mixer
T0104		Mixer
T0104		Mixer
T0801		Mixer
T0802		Mixer
T0803		Mixer
T1111		Mixer

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ADrecipe

Ingredients

Production Units

Process Cells

Recipes

Reports

Settings

Help Log out

Recipes

+ New Recipe

Recipe name	Process Cell	Status	Revision	Modifier	Time
ABBOPC01	Pigment preparation		3		
Abc_123	Coating colour preparation		0	ADMIN	31.1.2011 18:49:36
ABC123	Coating colour preparation		6		
ABC_123	Coating colour preparation		3		
AD0301	Coating colour preparation		5	ADMIN	25.1.2011 11:36:08
ADPH	Coating colour preparation		2	ADMIN	1.2.2011 10:42:15
ADrecipe	Coating Colour Preparation		1	ADMIN	1.2.2011 10:42:15
ADRECEPE11	Coating colour preparation			ADMIN	7.1.2011 8:34:06
ADRU001	Coating colour preparation			ADMIN	19.1.2011 13:37:50
AMR	CMC preparation		0		
ATV04	Coating Colour Preparation		0	ADMIN	1.2.2011 10:42:15
ball	Pigment preparation		0	ADMIN	18.1.2011 14:10:12
BS1	Starch Preparation			ADMIN	7.1.2011 15:24:14
BS11	Starch Preparation			ADMIN	7.1.2011 15:34:44

ADrecipe

Ingredients Production Units Process Cells Recipes

Master Recipe

OK

Master Recipe 2.2.2011 10:03:56 ADMIN

Control Recipe

Recipe name

ADRecipe0211

Process Cell

Coating Colour Prepari

Recipe Type

Batch

Target Solid Content

51

Calculate

Save

Publish

Order	Phase	Source Tank	Parts	Meas. Type	Temp. °C	Solid Content %
1	CaCO3 60	T0202	70	Weight	20	
2	Agitator start					
3	Clay 1	T0111	30	Weight	20	
4	Latex 1	T0302	8	Weight	20	
5	Starch	T0405	7	Weight	65	
6	Hardener	T0607	0,6	Flow	20	
7	Dispersant	T0707	0,5	Flow	20	
8	OBA	T0610	0,4	Flow	20	
9	NaOH	T0905	0,3	Flow	20	
10	Dye 1	T0701	0,02	Flow	20	
11	Dye 2	T0704	0,01	Flow	20	
12	Water	FWL	100	Flow	20	
13	Mixing time					13
14	Agitator stop					
Main Parts			100			
Additive Parts			16,83			
Water Parts			100			
			51	8721	17099	0:53:37

ADrecipe

Ingredients Production Units Process Cells Recipes Reports Settings

Control Recipe

Recipe Loaded to T0809

OK

Master Recipe 2.2.2011 10:21:59 ADMIN

Control Recipe 2.2.2011 10:21:59 ADMIN

Revision 0

Recipe name

ADRecipe0211

Process Cell

Coating Colour Prepari

Recipe Type

Batch

Batch Size

100

Target Solid Content

51

Calculate

Save

Publish

Destination

T0809

Load

Processing...

Order	Phase	Source Tank	Parts	Meas. Type	Temp. °C	Solid Content %	Dry kg	Wet kg	Speed %	Time min
1	CaCO3 60	T0202	70	Weight	20	75	5225	6967		0:05:11
2	Agitator start									0:00:00
3	Clay 1	T0111	30	Weight	20	72	2239	3110		0:02:23
4	Latex 1	T0302	8	Weight	20	50	597,1	1194		0:01:37
5	Starch	T0405	7	Weight	65	30	522,5	1742		0:09:36
6	Hardener	T0607	0,6	Flow	20	46	44,79	97,36		0:01:21
6	Dispersant	T0707	0,5	Flow	20	42	37,32	88,86		0:02:14
6	OBA	T0610	0,4	Flow	20	100	29,86	29,86		0:00:24
6	NaOH	T0905	0,3	Flow	20	10	22,39	223,9		0:03:28
6	Dye 1	T0701	0,02	Flow	20	1	1,493	149,3		0:04:58
6	Dye 2	T0704	0,01	Flow	20	1	0,746	74,64		0:02:29
7	Water	FWL	100	Flow	20	0	0	3422		0:06:50
8	Mixing time									13
9	Agitator stop									0:00:00
Main Parts			100							
Additive Parts			16,83							
Water Parts			100							
			51	8721	17099					0:53:37

ADrecipe

[Ingredients](#)
[Production Units](#)
[Process Cells](#)
[Recipes](#)
[Reports](#)
[Settings](#)

[Help](#)
[Log out](#)

[Production Report](#)
[Consumption Report](#)

From

1 1 2011 15 : 32

To

2 2 2011 15 : 32

Process Cell

All

Destination

All

Mixer

All

Recipe

All

Total Dry kg

11473

Total Wet kg

18383

Total Pcs

2

Search

All production is stored in database. Production is viewed in selected time period. Production Report consist of batches and continuous production. Detailed Batch and Continuous Reports are opened from Production Report. Consumption Report of ingredients is available for years as Production Report.

ADrecipe

[Ingredients](#)
[Production Units](#)
[Process Cells](#)
[Recipes](#)
[Reports](#)
[Settings](#)

[Help](#)
[Log out](#)

[Batch Report](#)

Recipe

ABC_123

Control Recipe Revision

0

Modifier

ADMIN

Loader

ADMIN

Process Cell

Coating colour preparation

Mixer

T0801

Destination

T0814

Dry kg

11478

Wet kg

18390

Time

0:15:00

Target Solid Content %

62.4

Actual Solid Content %

62.41

Start Time

31.1.2011 18:34:39

Stop Time

31.1.2011 18:49:39

Phase

Source Tank

Solid Content %

Start Time

Stop Time

Time

Target kg

Charged kg

Dosing Error kg

Dry kg

Status kg

ADrecipe

[Ingredients](#)
[Production Units](#)
[Process Cells](#)
[Recipes](#)
[Reports](#)

[Production Report](#)
[Consumption Report](#)

From

1 1 2011 15 : 32

To

2 2 2011 15 : 32

Process Cell

All

Destination

All

Mixer

All

Source Tank

All

Total Dry kg

11473

Total Wet kg

18383

Total Pcs

2

Search