

Package for Ceramic Industry



PACKAGE FOR CERAMIC INDUSTRY

Ceramic materials possess unique mechanical, thermal, and electrical properties that cannot be achieved with polymers and metals. These properties include high level of hardness, excellent thermal and electrical insulation, chemical and wearresistance, and extremely high melting point. Generally the term 'ceramics' (ceramic products) is used for inorganic materials (with possibly some organic content), made up of non-metallic compounds and made permanent by a firing process.

Today ceramics include a multitude of products with a small fraction of clay or none at all. Ceramics can be glazed or unglazed, porous or vitrified. Following are the few examples of ceramics

- **Bricks and Roof tiles**
- **Vitrified Clay pipes**
- **Refractory products**
- **Expanded Clay aggregates**
- **Wall and Floor tiles**
- **Table and Ornamental ware (Household Ceramics)**
- **Sanitaryware**
- **Technical ceramics**
- **Inorganic bonded abrasives**



Fabrication of ceramic materials in complex geometries using conventional manufacturing methods, however, is extremely difficult due to the low ductility, high melting temperature, and high crack damage sensitivity of these materials.

Chemical additives allow and promote the proper performance of the ceramic production processes. Their importance has been exponentially raising with the coming of rapid firing cycles that have increased the productivity. Nevertheless, this new kind of additives has helps to get the right rheology and the desired effect.

Utilizing our knowledge and expertise gained over the years, we are able to keep up with the dynamic requirements of the customers. We Rossari Biotech Limited, as a Manufacturer, provide absolute quality solutions to our customers.

FOAM CONTROL AGENT

Product name	Chemical nature	Key features	Appearance	pH	Solids	Tg
TRIOBAN PWD 26	Non Silicone Powder	<ul style="list-style-type: none"> Shows moderate performance in controlling foam. Very effective for very wide temperature range It is bio acceptable and Eco Friendly product Suited for dry powder formulation defoaming 	White free flowing powder	8.5 ± 1.0		
TRIOBAN PW STN	proprietary formulation of activated poly-dimethyl siloxane on an inorganic carrier base.	<ul style="list-style-type: none"> Shows excellent performance in controlling foam Very effective for very wide temperature range Performs well at very high alkaline pH It is bio acceptable and Eco Friendly product 	Off- White powder	(5 % Aq. Solution) 11.0 ± 1.0		

PROCESSING AID

Product name	Chemical nature	Key features	Appearance	pH	Solids	Tg
UNITOP-DEIPA-85	DIETHANOL ISOPROPANOL AMINE	<ul style="list-style-type: none"> Increases the strength of cements at all hydration ages, and cements blended with fly ash and slag tend to show a greater response to the chemical Used in the formulation of cement additives and concrete admixtures Improve strength of the cement and making them in granular form Low dosage in the formulation of cement additives and concrete admixtures 	Clear, colourless liquid, free from foreign matter		85-95 %	
UNITOP-TEA-65	TRIETHANOLAMINE	<ul style="list-style-type: none"> Low dosage application to improve strength of the cement and making them in granular form It will improve strength of the cement and making them in granular form 	Colourless to pale yellow liquid	5% aq. soln. 9.5 – 11.5	min 65 %	
UNITOP-TEA-85	TRIETHANOLAMINE	<ul style="list-style-type: none"> Low dosage application to improve strength of the cement and making them in granular form It will improve strength of the cement and making them in granular form 	Clear colourless liquid	1% aq. soln. 10.0 – 11.0	99-100	

BINDER

Product name	Chemical nature	Key features	Appearance	pH	Solids	Tg
Cerabind 1016 NPC	Poly acrylamide based co-polymer	<ul style="list-style-type: none"> Highly economical and effective polymer Very useful for increasing GREEN and dry M.O.R. Compatible with organic , inorganic and hybrid dispersant No residual ash in the ceramic bodies after sintering Compatible with all types of polyacrylate polymer Does not interfere with the glazing phase Very low foaming when formulated with ceramic powders Highly insensitive to humidity change Ready to use water based product Not sensitive to water quality Not pH sensitive product Imparts excellent stability to the slurry Imparts green strength flexibility to vitrified tiles 	Free flowing transparent viscous liquid	10% solution Around 6 to 8	15 to 16	+ 20.62 deg. C

CMC

Product name	Chemical nature	Key features	Appearance	pH	Solids	Tg
CERAGLAZE CM POWDER	Carboximethyl cellulose, salt, sodium	<ul style="list-style-type: none"> In mill, increases the viscosity of the glaze Provide excellent plasticity Increase binding force of preform Increase smoothness of glaze Application in printed glaze Application in ground coat and face coat Stable dispersing state of preform body Improve surface tension of glaze 	Granular powder	1% solution) 6.0 to 8.0		

ADDITIVES

Product name	Chemical nature	Key features	Appearance	pH	Solids	Tg
CERAGRIND 129 LIQUID	Mixture of glycols	<ul style="list-style-type: none"> • Decrease the milling time • Increase the productivity in the dry mill • Increase the compressive 	Colourless liquid	10% SOLUTION 7.50 +/- 1		
CERAGRIND 892 LIQUID	Mixture of glycols and Amine	<ul style="list-style-type: none"> • Low viscosity values • Decrease the milling time • Increase the productivity in the dry mill • Increase the compressive strength of the cement 	Slightly Pale yellow color	10% SOLUTION 10.0 +/- 1		
Neobind 7047 AP	Modified acrylic emulsion polymer	<ul style="list-style-type: none"> • Cement motors, flooring, plasters modified with Neobind 7047 AP have superior flexural, bonding and impact strength as well as excellent abrasion resistance • Has excellent waterproofing capability and widely used for water-proofing of floors, rooftops, basements and maintenance of seepage and leakage. • Neobind 7047 AP modified cement mortars doesn't require wet curing as it holds the water in the system sufficient for cement curing. • It increases workability of the mortar at one side and at other side thin sections dry rapidly. • It increases cement mortars are resistant to many industrial chemicals, UV rays and heat. 	Milky liquid	10% solution Around 6 to 8	47.0% ± 1.0%	



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