

PRESIDENT'S MESSAGE

Dear Friends,

First of all let me wish you a Merry Christmas and Happy New Year 2025. I wish the New Year brings lot of growth to our industry and good health and happiness to all the stake holders.

I take this opportunity of thanking all of you for reposing your trust and confidence in the present team and re-electing them for a term of three years during AGM held on 27th September, 2024. We have two new additions in the Managing Committee i.e. Mr. Nitin Agarwal from M/s. A.J. Packaging Limited and Mr. Kaushal Vora from M/s. Massilly India Packaging Private Limited.



The new Members who are young and energetic will certainly bring new ideas in working of MCMA and I welcome them.

In the past, as all of you know, I have already mentioned about the

various Quality Control Orders issued by different Ministries and lot of our inputs are already covered in them like, Tinplate, Copper Wire, Aluminium Foil etc.

Ministry of Heavy Industry, Government of India has issued an order on 28th August, 2024 namely "Machinery and Electrical Equipment Safety (Omnibus Technical Regulation) order, 2024". The order covers various equipments, assemblies and sub-assemblies etc. as given in First Schedule. The items covered in the said schedule have to make provisions of various safety measures as given in Schedule second and third. The manufacturer of such machines either has to register with BIS or has to issue Conformity Certificate from BIS that the Capital goods being supplied by them are meeting all the requirements. Needless to mention that this order is applicable to both Indigenous and Overseas manufacturers.

It is therefore, suggested that we should write to our vendors for the same and share the feed-back received from them with MCMA so that we can take up the issues accordingly with the Ministry. The order dated 28th August, 2024 is applicable with effect from 28th August, 2025.

Further, I hope that the concerned members who are

OBITUARY



MCMA condoles the death of former Prime Minister, Dr Manmohan Singh on December 26, 2024.

engaged in manufacture of Round Open Top Sanitary Cans for Foods and Drinks are taking appropriate steps to get mandatory certification of BIS as the same is effective from 1st April, 2025. We shall appreciate, in case they can share with MCMA about any difficulties faced by them in this process, so that we can take it up with the concerned officials in BIS.

Keeping in mind the growing demand for metal packaging, we understand that number of our members are investing into expansion of capacity, alternate location and technology upgradation, which indeed is a good sign for the industry and we wish all of them good luck.

MCMA Continues to be in touch with concerned Ministries on issues relating to metal packaging industry. Members of MCMA continue to be present by exhibiting their products in various exhibitions and taking part in various conferences and highlighting issues of the industry. We thank all of them for the active participation on various platforms.

I would like to end by once again conveying my good wishes for the coming New Year 2025 for all of you and your families.

President
Metal Container Manufacturers' Association

In a series of interviews, Packaging News hears from brands and associations about their expectations for the packaging sector next year.



the development of re-cycling infrastructure and ensure greater access to recycled content that can be incorporated into our packaging.

It remains important that food producers, whose understanding of the manufacturing process and the requirements of packaging is unparalleled, and who will bear the costs of EPR, are at the centre of this system, drawing on the experience of well-performing schemes in other countries which are producer-led.

We know the next year is going to be a significant one for our industry, and as a major food and drink producer on a journey to improve its packaging sustainability but we know we can't do it alone.

Our message to the sector in 2025 and beyond is simple: let's keep working together on these shared challenges to find common solutions that can help all of us to be part of the transition.

Source : Waqas Qureshi Packaging News Dec 2024

At Nestlé, we are committed to being a responsible corporate citizen and taking bold action to address the urgent issue of packaging waste.

We also recognise the need to address the environmental impact of packaging waste, particularly plastics.

As we look towards 2025, we know it will be a pivotal year for Nestlé and our industry's approach to packaging sustainability.

From January, we will see the implementation of the first phase of Extended Producer Responsibility for packaging (pEPR). For the first time, producers like Nestlé will be responsible for paying the full net costs of managing the packaging they place on the market at end of life.

We have spent the last three years engaging closely with Government, industry peers and trade associations to shape the UK pEPR model, and we remain fully supportive of a well-designed and well-functioning EPR system that meets its aims and objectives: to ensure more packaging is designed to be recyclable, stimulate



TATA STEEL UK AND SWANSEA UNIVERSITY REACH STEEL FOOD CAN RESEARCH MILESTONE

A collaborative research project between the Steel and Metals Institute (SaMI) at Swansea University and Tata Steel UK showcases the high performance of steel food cans and the accurate tests they undergo before reaching consumers.

This is the 1000th joint research project undertaken between the two parties. Standard food cans are predominantly produced with a steel base coated with tin and sometimes an additional internal polymer lining.

Canned foods provide multiple advantages including an ability to extend product shelf life; preserve nutritional contents; durability; require no refrigeration and are easily recycled.

few weeks to simulate the effects of several years.”

Tata Steel’s James Edy, Coatings Researcher, added: “A typical testing process involves various steps. We fill cans with food simulant solutions, then seam the lid on. We leave a small amount of headspace – which creates a vacuum inside when the can is sealed.

“Then the cans are sterilised at more than 100°C under pressure, using saturated steam, hot water, or steam and air. As the pressure increases, the boiling point of



Like all steel products, food cans must meet the highest standards of performance and quality. Safety is critical, given the can will contain food.

As the industry moves towards making steel from recycled scrap the same thorough testing will also be applied to scrap metal, a process that emits lower carbon emissions than producing it from raw materials such as coke and iron ore.

Tata Steel’s Trostre plant is the primary supplier of packaging steels to many brands found in the UK, spanning food, home, and personal care products.

In SaMI’s facility they replicate real-life conditions, putting steel products through a set of rigorous tests, to ensure they meet the very exacting standards required.

Dr Barrie Goode SaMI’s Director, Industrial Research and Development explained how food cans are tested, saying: “We need to check how different steels interact with different foodstuffs, which may include chemical substances such as salt or vinegar. Of course, there must be no spoilage of the food, but the structure of the can must also remain robust and intact.

“Our accelerated tests mean, we can fast-forward the effects of time on the can and contents, so it takes just a

water also increases, allowing superheating of water without boiling. This process disinfects the contents. It also provides a speeded-up way to assess any reaction between the can and contents.

“We then analyse the cans in microscopic detail for any degradation and causes. Our electron microscopes magnify samples up to 1000 times to identify any areas of concern. We then carry out microanalysis on these using a technique called energy dispersive spectroscopy, which identifies and quantifies the chemical elements in a sample.”

Following the testing process, researchers look to examine several factors including if the lacquer film has blistered or peeled from the can; evidence of corrosion even at microscopic level; visual changes to the can such as discolouration; or if the can meets stringent quality, safety and reliability standards.

“This is vital information for our customers to know, so they can assure their customers that the product is of the highest quality. It also means the public can be confident that their cans have been strictly tested, proving their quality,” concluded Edy.

Source: Packaging News Dec 2024

STORAGE, PREPARATION AND APPLICATION LIQUID PVC BASED CLOSURE COMPOUNDS

PVC based compounds are quite extensively used to meet the sealing requirements of the closure industry. They are used to seal crowns for carbonated and non-carbonated beverages in glass bottles in select cases; however, industry has largely shifted to dry blend applications. These compounds are also used to seal roll-on / pilfer-proof (RO / ROPP) Aluminium caps.

PVC compounds are used to a limited extent in crown and ROPP closures. Their primary application is sealing crimp-on caps, lug caps, and twist-off caps for packaging aqueous, acidic, fatty foods, and technical products in glass jars.

This write-up provides general recommendations for handling PVC-based closure compounds. However, end users should always consult the appropriate product data sheet to obtain information specific to a particular compound before use.

to 200 rpm is recommended to achieve a homogeneous mixture. Care should be taken during any transfer to prevent contamination with water and to avoid introducing air into the compound, as both can lead to blistering in the final gasket.

Do not mix different compounds.

It is advisable to clean both the preparation and application equipment using mechanical methods and, if necessary, by purging with the PVC plastisol compound intended for use.

Application

PVC plastisol compounds are transferred manually or via pump to the Compound Pumping Units. These units are designed to ensure a continuous flow of the compound at the appropriate temperature and pressure for lining through a nozzle.

The compound's temperature should typically be



Storage

PVC plastisol compounds should be stored under uniform temperature conditions between 5 °C and 30 °C. They should be stored away from direct sunlight and heaters. It is noteworthy that they should be used on a first-in-first-out basis (FIFO).

Storage of PVC plastisol compounds at temperatures greater than 43°C will cause an irreversible increase in viscosity. However, though storage of these compounds at lower temperatures also causes an increase in viscosity, it is reversible.

For optimal performance, it is recommended to use the compounds within six months of the shipment date, unless otherwise specified in the product data sheet of a reputed supplier.

If there is a significant temperature difference between the storage area and the lining shop, it is recommended to bring the containers into the lining shop approximately 48 hours prior to use.

Preparation

It should be stirred before use to ensure a homogeneous compound.

A stirring cycle of 10 to 20 minutes at a speed of 100

maintained between 35°C and 43°C. However, low-viscosity compounds may be applied at temperatures as low as 30°C, depending on the lining equipment. It is advisable to consult the supplier for guidance on the optimal conditions based on the specific compound's formulation.

Caution: To prevent gelation, the compound should not exceed 43°C or be maintained at 43°C for extended periods. Supplier recommendations should take precedence in this case.

Compound pressure will depend on film weight and nozzle size. However, typically, it should be between 0.7 and 5.0 bar (10 and 75 psi).

Crown molding compounds are applied using a molding machine, which injects the compound into the crown and shapes it into a profile gasket using a heated mould. The moulding process usually takes between 2.5 and 5.0 seconds, with the mould temperature maintained between 160°C and 185°C.

The next write up of this series will focus on compound fluxing for different chemistries and post application etiquette.

Source: Ravikumar Purbhe, Business Development Manager, Metal Packaging - India, Middle East, Africa, Henkel Adhesive Technologies.

EDITORIAL

Welcome to another edition of MCMA News !!

Amidst the Christmas and year end celebrations, we lost our former Prime Minister and pioneer of reforms, Dr Manmohan Singh few days ago. You will recollect that it was the vision of the then Prime Minister, Mr P V Narasimha Rao that he brought in the economics architect Dr Manmohan Singh as Finance Minister in 1991, to address the issues that India was facing then.

According to the World Bank's India Development Update of end October 2024, the country's GDP is projected to grow at a robust 7% in FY 2024-25, underscoring its position as the fastest-growing major economy in the world. This growth momentum has been consistent, with GDP rising from 7.0% in FY 2022-23 to 8.2% in FY 2023-24.

According to the RBI's monthly bulletin in December 2024, continued government investments in infrastructure are anticipated to boost economic activity and encourage investments.

Business Today reported that monthly per capita consumption expenditure (MPCE), according to the Household Consumption Expenditure Survey 2023-24, released on Friday, December 27, 2024, southern states of Kerala, Telangana, Tamil Nadu, Karnataka & Andhra Pradesh lead India's spending surge. Industrialized states like Gujarat and Maharashtra hover around the national average, while populous northern states like Uttar Pradesh, Bihar, Madhya Pradesh and Rajasthan lag-behind. West Bengal falls below the average in both rural and urban spending. Conducted from August 2023 to July 2024, the Household Consumption Expenditure Survey provides critical insights into spending trends, helping measure poverty, inequality and economic well-being.

The global packaging market, valued at over \$1 trillion, is driven by sectors like e-commerce, food delivery, pharma and the food industry, particularly in cities like Bengaluru and Mumbai.

Packaging plays a crucial role in food safety, extending shelf life and boosting India's export competitiveness. India's packaged food sector reached a market size of \$2.8 billion in 2023, with projections suggesting it would grow to \$6.4 billion by 2029. India's packaged food consumption is currently around 7%, and there is potential to increase this to 20% by reducing post-harvest losses and extending shelf life, as seen in developed markets, where packaged food consumption has reached up to 80%. The shifting consumer preferences and the growing demand for convenient, ready-to-eat options in one of the world's most populous countries, would help metal packaging gain a larger market share.

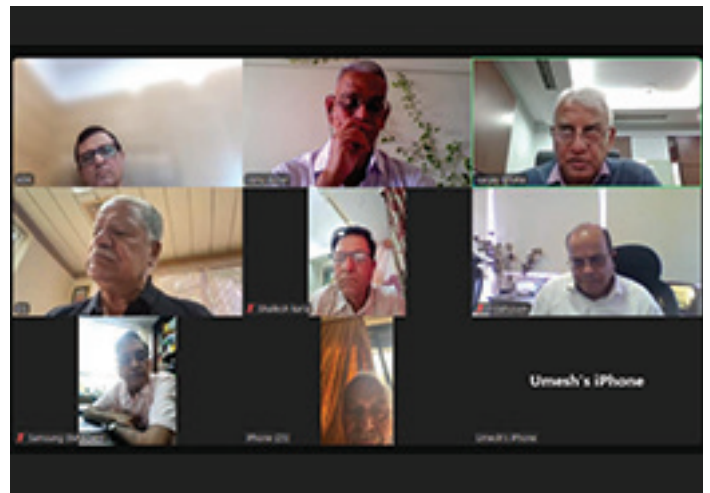
In this background, I think there are great opportunities for metal packaging. However, Members should be

more visible, like some of the other packaging forms and display their innovative products at some of the major packaging & food exhibitions and conferences. This will generate awareness and over a period, create more business for all of you. As the old adage goes "SEEING IS BELEIVING" !!

I take this opportunity to WISH ALL OF YOU AND YOUR FAMILIES A VERY HAPPY, HEALTHY AND PROSPEROUS NEW YEAR 2025.

Best of wishes to all of you !!
Best regards,
Editor.

MANAGING COMMITTEE MEETING



Managing Committee Meeting was held on December 27, 2024.

MANAGING COMMITTEE

- Mr Sanjay Bhatia - President
- Mr Diwakar Shetty – Vice President
- Mr Purushottam Patel – Secretary
- Mr Om Agarwal – Jt Secretary
- Mr Shekhali Barodawala – Treasurer
- Mr A B Kulkarni
- Mr Fidahusain Tinwala
- Mr Shailesh Karia
- Mr Umesh Batra
- Mr Nitin Agarwal
- Mr Kaushal Vora